156330 L

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

SEA	ARCH REQUEST FORM	
equestor's (ybile de ame: 7/1/04	Serial 09 Number: O9 Phone: 272-0572 Art Un	it: 1614
earch Topic: lease write a detailed statement of search top lat may have a special meaning. Give examp copy of the sequence. You may include a	ic. Describe specifically as possible the subject matter to les or relevant citations, authors keywords, etc., if known copy of the broadest and/or most relevant claim(s).	be searched. Define any terms 1. For sequences, please attach
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	STAFF USE ONLY	
Date completed: 7/5/04f Searcher: Amold	Search Site STIC CM-1	Vendors IG Suite STN
Terminal time:	Type of Search	Dialog APS Geninfo
Total time:	N.A. Sequence A.A. Sequence	Genino SDC DARC/Questel
Number of Databases:		Other

Bibliographic



STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 126320

TO: Cybille Delacroix

Location: REM/4C70

Art Unit: 1614

Friday, July 02, 2004

Case Serial Number: 09/676034

From: Deirdre Arnold

Location: Biotech-Chem Library

REM 1A64

Phone: 571-272-2532

Deirdre.Arnold@uspto.gov

Search Notes

RUSH

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STIC SEARCH RESUL FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact the searcher or contact

Mary Hale, Information Branch Supervisor 571-272-2507 Remsen E01 D86

VO	luntary Results Feedback, July
Þ	I am an examiner in Workgroup Example: 1610
۶	Relevant prior art found, search results used as follows:
	102 rejection
	103 rejection
	Cited as being of interest.
	Helped examiner better understand the invention.
	Helped examiner better understand the state of the art in their technolog
	Types of relevant prior art found:
	Foreign Patent(s)
	Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
٤	Relevant prior art not found:
	Results verified the lack of relevant prior art (helped determine patentability).
	Results were not useful in determining patentability or understanding the invention
Con	nments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg



=> fil lreg

FILE 'LREGISTRY' ENTERED AT 10:40:05 ON 02 JUL 2004
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STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2 DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting ${\tt SmartSELECT}$ searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> d ide 123 1-

YOU HAVE REQUESTED DATA FROM 10 ANSWERS - CONTINUE? Y/(N):y

L23 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN

RN 443685-81-2 REGISTRY

CN Hexanoic acid, 3,5,5-trimethyl-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H25 N3 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 4 REFERENCES IN FILE CA (1907 TO DATE)
- 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L23 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 436809-90-4 REGISTRY
- CN Benzoic acid, 3,4,5-trimethoxy-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C19 H19 N3 O7
- SR CA
- LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
- DT.CA CAplus document type: Patent

- 6 REFERENCES IN FILE CA (1907 TO DATE)
- 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- L23 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 233263-10-0 REGISTRY
- CN Carbamic acid, [4-[[2-methoxy-4-[(2,3,4,5-tetrahydro-1H-1-benzazepin-1-yl)carbonyl]benzoyl]amino]-1H-benzimidazol-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C31 H33 N5 O5
- SR CA
- LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L23 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN

RN 212754-54-6 REGISTRY

CN Carbamic acid, [7-chloro-4-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-5-fluoro-1H-benzimidazol-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C16 H12 Cl F4 N5 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

L23 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN

RN 208770-65-4 REGISTRY

CN Carbamic acid, [4-[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]benzoyl]amino]-1H-benzimidazol-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C40 H51 N7 O7

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

PAGE 1-A

Me N—Me N—Me
$$\sim$$
 O N—Me \sim O NH

ANSWER 6 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN L23

208768-81-4 REGISTRY RN

Carbamic acid, [4-[[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-CNpiperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, dihydrochloride (9CI) (CA INDEX

C37 H45 N7 O7 . 2 Cl H MF

SR

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL / DT.CA CAplus document type: Patent

Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

(208767-99-1) CRN

PAGE 1-A

Me N—C (
$$CH_2$$
) 5—0 N—Me C—0

PAGE 2-A

●2 HCl

- L23 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
- RN 208767-99-1 REGISTRY
- CN Carbamic acid, [4-[[[2-methoxy-4-[[methyl][4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]amino]carbonyl]1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C37 H45 N7 O7
- CI COM
- SR CA
- LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PAGE 1-A

PAGE 2-A

L23 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN

RN 200499-91-8 REGISTRY

CN Carbamic acid, [4-[[4-(2-pyridinyl)-1-piperazinyl]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H20 N6 O3

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES/ IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L23 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN

RN 153213-43-5 REGISTRY

CN Carbamic acid, (8-butyl-8,9-dihydro-9-oxo-1H-imidazo[4,5-f]quinazolin-2-yl)-, methyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Imidazo[4,5-f]quinazoline, carbamic acid deriv.

FS 3D CONCORD

MF C15 H17 N5 O3

SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L23 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN

RN 81946-27-2 REGISTRY

CN Carbamic acid, (8-butyl-8,9-dihydro-9-oxo-1H-imidazo[4,5-f]quinazolin-2-

yl)-, ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Imidazo[4,5-f]quinazoline, carbamic acid deriv.

FS 3D CONCORD

MF C16 H19 N5 O3

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL STNGUIDE

=>

*

=> fil lreg

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STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2 DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> fil hcaplus

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FILE COVERS 1907 - 2 Jul 2004 VOL 141 ISS 2 FILE LAST UPDATED: 1 Jul 2004 (20040701/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> fil uspatfull

FILE 'USPATFULL' ENTERED AT 11:31:38 ON 02 JUL 2004
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 Jul 2004 (20040701/PD)
FILE LAST UPDATED: 1 Jul 2004 (20040701/ED)
HIGHEST GRANTED PATENT NUMBER: US6757913
HIGHEST APPLICATION PUBLICATION NUMBER: US2004128728
CA INDEXING IS CURRENT THROUGH 1 Jul 2004 (20040701/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Jul 2004 (20040701/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2004
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2004

```
USPAT2 is now available. USPATFULL contains full text of the
    original, i.e., the earliest published granted patents or
    applications. USPAT2 contains full text of the latest US
    publications, starting in 2001, for the inventions covered in
    USPATFULL. A USPATFULL record contains not only the original
    published document but also a list of any subsequent
    publications. The publication number, patent kind code, and
    publication date for all the US publications for an invention
    are displayed in the PI (Patent Information) field of USPATFULL
    records and may be searched in standard search fields, e.g., /PN,
    /PK. etc.
>>>
>>> USPATFULL and USPAT2 can be accessed and searched together
                                                                       <<<
    through the new cluster USPATALL. Type FILE USPATALL to
>>>
                                                                       <<<
    enter this cluster.
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    Use USPATALL when searching terms such as patent assignees,
                                                                       <<<
    classifications, or claims, that may potentially change from
                                                                       <<<
    the earliest to the latest publication.
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=> fil toxcenter

FILE 'TOXCENTER' ENTERED AT 11:31:42 ON 02 JUL 2004 COPYRIGHT (C) 2004 ACS

FILE COVERS 1907 TO 29 Jun 2004 (20040629/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

TOXCENTER has been enhanced with new files segments and search fields. See HELP CONTENT for more information.

TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See http://www.nlm.nih.gov/mesh/ and http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html for a description of changes.

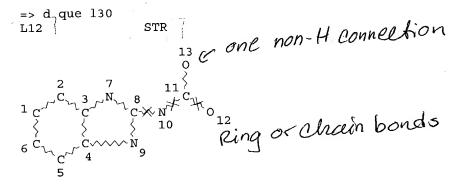
=> FIL STNGUIDE

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jun 25, 2004 (20040625/UP).



NODE ATTRIBUTES:

IS RC AT10 NSPEC NSPEC IS RC AT11 NSPEC IS RC AT 12 CONNECT IS E1 RC AT

DEFAULT MLEVEL IS ATOM

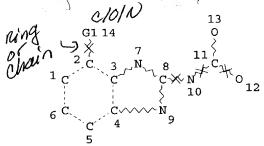
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

4407 SEA FILE=REGISTRY SSS FUL L12 Parent Set STEREO ATTRIBUTES: NONE L14 L15



VAR G1=C/O/N NODE ATTRIBUTES: IS RC AT10 NSPEC IS RC AT11 NSPEC IS RC AT12 NSPEC

RC AT CONNECT IS E1 13

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

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92 SEA FILE=REGISTRY SUB=L14 SSS FUL L15
L17.
                STR
L20
                     13
    G1 14
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                                  0 \times C \times N
                                                   0-X C-X 0
                                  15 @16 17
                                                  @18 19 20
                   11
                                     61
                  10
 N-≫ C-≫ O
@21 22 23
61
VAR G1=16/18/21
NODE ATTRIBUTES:
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        IS RC
                   AT
                       10
NSPEC
        IS RC
                   ΑT
                       11
                             ring or chain nodes
NSPEC
        IS RC
                   ΑT
                       12
NSPEC
        IS RC
                   AT
                       15
NSPEC
        IS RC
                   AΤ
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NSPEC
        IS RC
                   ΑT
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                   AT
                       18
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        IS RC
                   ΑT
                       19
                       20
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        IS RC
                   ΑT
                       21
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        IS RC
                   AT
NSPEC
        IS RC
                   AT
                       22
NSPEC
        IS RC
                   AT
                       23
CONNECT IS E1
               RC AT
                       13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23
STEREO ATTRIBUTES: NONE
             10 SEA FILE=REGISTRY SUB=L17 SSS FUL L20
L23
              12 SEA FILE=HCAPLUS ABB=ON PLU=ON L23
L30
=> d que 131
                 STR
L12
                     13
                   11
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NODE ATTRIBUTES:

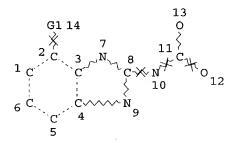
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CONNECT IS E1 RC AT 13
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L14 4407 SEA FILE=REGISTRY SSS FUL L12 L15 STR



VAR G1=C/O/N

NODE ATTRIBUTES:

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CONNECT IS E1 RC AT 13

DEFAULT MLEVEL IS ATOM

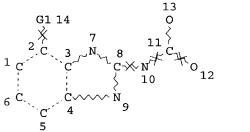
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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L17 92 SEA FILE=REGISTRY SUB=L14 SSS FUL L15 L20 STR



O ★ C ★ N O ★ C ★ O 15 @16 17 @18 19 20

 $N \times C \times O$ @21 22 23

VAR G1=16/18/21 NODE ATTRIBUTES:

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                        10
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NSPEC
        IS RC
                    TA
                        12
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        IS RC
                   AT
                        15
NSPEC
        IS RC
                    TA
                        16
NSPEC
        IS RC
                    ΑT
                        17
NSPEC
        IS RC
                    ΑT
                        18
NSPEC
        IS RC
                    AΤ
                        19
NSPEC
        IS RC
                   ΑT
                        20
NSPEC
        IS RC
                    ΑT
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NSPEC
        IS RC
                    AT
                        22
NSPEC
        IS RC
                    ΑT
                        23
CONNECT IS E1
                RC AT
                        13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

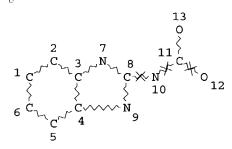
STEREO ATTRIBUTES: NONE

L23 10 SEA FILE=REGISTRY SUB=L17 SSS FUL L20

7 SEA FILE=REGISTRY ABB=ON PLU=ON L23 AND USPATFULL/LC L28

11 SEA FILE=USPATFULL ABB=ON PLU=ON L28

L31



NODE ATTRIBUTES:

IS RC NSPEC AΤ 10 IS RC NSPEC AΤ 11 IS RC AT12 NSPEC CONNECT IS E1 RC AT DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

4407 SEA FILE=REGISTRY SSS FUL L12

L15 STR

VAR G1=C/O/N

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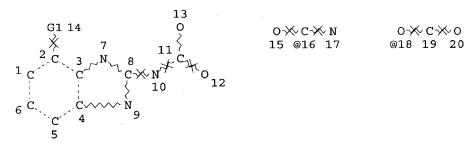
NSPEC IS RC TA10 NSPEC. IS RC AT11 NSPEC IS RC AT 12 CONNECT IS E1 RC AT DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L17 92 SEA FILE=REGISTRY SUB=L14 SSS FUL L15 L20 STR



 $N \times C \times O$ @21 22 23

VAR G1=16/18/21 NODE ATTRIBUTES:

NSPEC IS RC AT10 NSPEC IS RC AT11 NSPEC IS RC ΑT 12 NSPEC IS RC 15 ATNSPEC IS RC 16 AT NSPEC IS RC AT17 NSPEC IS RC AT 18 NSPEC IS RC 19 AT NSPEC IS RC AT 20 NSPEC IS RC AT 21 NSPEC IS RC AT 22 NSPEC IS RC AT23 CONNECT IS E1 RC AT

Remove duplicates

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L23 \ 10 SEA FILE=REGISTRY SUB=L17 SSS FUL L20

L29 6 SEA FILE=REGISTRY ABB=ON PLU=ON L23 AND TOXCENTER/LC

L32 8 SEA FILE=TOXCENTER ABB=ON PLU=ON L29

=> dup rem 130 131 132

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FILE 'USPATFULL' ENTERED AT 11:32:40 (CA INDEXING COPYRIGHT (C) 2004 AMERICA

FILE 'TOXCENTER' ENTERED AT 11:32:40

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PROCESSING COMPLETED FOR L30

PROCESSING COMPLETED FOR L31

PROCESSING COMPLETED FOR L32

L33

17 DUP REM L30 L31 L32 (14 DUPLICATES REMOVED)

ANSWERS '1-12' FROM FILE HCAPLUS
ANSWERS '13-17' FROM FILE USPATFULL

=> d 133 ibib abs hitstr retable

L33 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

ACCESSION NUMBER:

2004:240413 HCAPLUS

DOCUMENT NUMBER:

140:270855

TITLE:

Preparation of benzimidazolecarbamates for treatment

of cancer

INVENTOR(S):

Camden, James Berger; Agyin, Joseph K.; Quada, James

C., Jr.

PATENT ASSIGNEE(S):

UAF Technologies and Research, LLC, USA

SOURCE:

U.S., 19 pp., Cont.-in-part of U.S. 6,506,783.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6710065	В1	20040323	US 2000-676031	20000929
US 6506783	B1	20030114	US 1997-857811	19970516
CN 1254282	A	20000524	CN 1997-182190	19971126
US 6077862	A	20000620	US 1999-259969	19990301
AU 763272	B2	20030717	AU 2001-37094	20010418
PRÍORITY APPLN. II	1FO.:		US 1997-857811 A2	19970516
	\$		AU 1998-74027 A3	19971126

OTHER SOURCE(S):

MARPAT 140:270855

GI

$$R \longrightarrow NHCO_2Me$$
 $N \longrightarrow NHCO_2Me$
 $N \longrightarrow NHCO_2Me$

EtOCH2CH2O2C

CN

AB Title compds. [I; R = CO2R1, CONR1R2, O2CR1, NHCOR1; R1 = alkyl, haloalkyl, hydroxyalkyl, alkenyl, haloalkenyl, cycloalkyl, heterocycloalkyl, (substituted) Ph, PhNH, PhCH2, alkoxyalkyl, hydroxyalkoxyalkyl, haloalkoxyalkyl, aminoalkyl, etc.; R2 = H, alkyl], were prepared Thus, Me 5-chlorocarbonyl-1H-benzimidazole-2-carbamate and 2-(2-ethoxyethoxy)ethanol were stirred together for 16 h at 23° and for 1 h at 40° to give 49.5% title compound (II). II showed IC50 = 0.084 μM against B16 murine melanoma cells.

II

IT 436809-90-4P 443685-81-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzimidazolecarbamates for treatment of cancer)

RN 436809-90-4 HCAPLUS

Benzoic acid, 3,4,5-trimethoxy-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RN 443685-81-2 HCAPLUS

CN Hexanoic acid, 3,5,5-trimethyl-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RETABLE					
Referenced Author	Year	1	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=======================================		+====- '	===== 	+=====================================	
Adams	1973	!		US 3738995 A	HCAPLUS
Anderson	1994	!		US 5329012 A	HCAPLUS
Anon				JP 07277956	HCAPLUS
Anon	1965			BE 667158	HCAPLUS
Anon	1973	ļ		EP 2155888	
Anon	1982				HCAPLUS
Anon	1994	<u> </u>		EP 617968	HCAPLUS
Anon	1994	ļ		WO 9404541	HCAPLUS
Anon	1995	<u> </u>		JP 07277956	HCAPLUS
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Anon	1996			WO 9632104	HCAPLUS
Anon	1996	-		WO 9632107	HCAPLUS
Anon	1996	1		WO 9632115	HCAPLUS
Anon	1996			WO 9640119	HCAPLUS
Anon	1996	· ·		WO 9640120	HCAPLUS
Anon	1996			WO 9640122	HCAPLUS
Anon	1997	1		WO 9705870	HCAPLUS
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Anon	1997	İ	į	WO 9705873	HCAPLUS
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Anon	1998	İ	j	WO 9851303	HCAPLUS
Anon	1998		İ	WO 9851304	HCAPLUS
Anon	1999	İ	İ	WO 9959585	HCAPLUS
Anon	1971	78	129	Aur, J Pediatr	į
Anon	1996	İ	7943	Merck Index, 12t	•
Anon	1968	1	1035	Merck Index, Eighth	
Anon	1983	İ	777	Stedman's Medical Di	
Atassi	1975	11	599	Europ, J Cancer	HCAPLUS
Bissery	1995	22	3	Seminars in Oncology	
Brabender	1976	36	905	Cancer Research	j
Brown	1961	83	1764	J Am Chem Soc	HCAPLUS
Camden	1997		i	US 5629341 A	HCAPLUS
Camden	1997	1	İ	US 5656615 A	HCAPLUS
Camden	1997	İ		US 5665713 A	HCAPLUS
Camden	1997		i	US 5665751 A	HCAPLUS
Camden	1998		İ	US 5767138 A	HCAPLUS
Camden	1998			US 5770616 A	HCAPLUS
Camden	1998			US 5840742 A	HCAPLUS
Camden	1998	i		US 5854231 A	HCAPLUS
Camden	1999			US 5872142 A	HCAPLUS
Camden	1999		i	US 5880144 A	HCAPLUS
Camden	1999			US 5900429 A	HCAPLUS
Camden	1999			US 5902804 A	HCAPLUS
Camden Camden	1999			US 5902804 A	HCAPLUS
	1999			US 5929099 A	HCAPLUS
Camden	17222	l	I	05 3929099 A	TICKE TOP

Camden	1999	- 1		US 5932604 A	HCAPLUS
Camden	1999	i		US 5932609 A	HCAPLUS
Camden	2000	i	j	US 6025377 A	HCAPLUS
Camden	2000	į		US 6077862 A	HCAPLUS
Carter	1981	İ	362	Chemotherapy of Canc	
Carter, W	1975	i	277	Selective Inhibitors	
Delatour	1976	31	505	Therapie	HCAPLUS
Dersch	1970	-		US 3499761 A	
Dupont	1994			Material Safety Data	
Edlind	1995	ì		US 5434163 A	HCAPLUS
Elgebaly	1985				HCAPLUS
Elgebaly	1985	74	811	J Natl Cancer Inst	HCAPLUS
Frensch	1977	<i>'</i> -		US 4046906 A	HCAPLUS
Friedman	1978	544	605	Biochimica et Biophy	HCAPLUS
Georgopapadakov	1994	264	371	Science	
Ghannoum	1990	201	3,1		HCAPLUS
Goodman & Gilman's	1996		1192	The Pharmacological	
	1965	30	259	J Org Chem	HCAPLUS
Grenda	1989	50	237	US 4814329 A	HCAPLUS
Harsanyi	1976			US 3956262 A	HCAPLUS
Heyes	1994			US 5290801 A	HCAPLUS
Higley	1992			US 5098923 A	HCAPLUS
Karjalainen	1994		607	1	HCAPLUS
Katiyar	1992		1007	US 5114951 A	HCAPLUS
King	1970			US 3541213 A	1
Klopping	1985	34	 1073	Biochemical Pharma	HCAPLUS
Lacey		34	3603	Biochemical Pharma	HCAPLUS
Lacey	1985	34 18	885	International Journa	!
Lacey	1988 1975	10 77	379	Bull Soc Sci Vet et	HCAPLUS
Lapras, M	1975	104	119	Chest	l licini Eos
Lassnau		104	11 <i>9</i>	US 3010968 A	HCAPLUS
Loux	1961	 39	53 15	Diss Abstr Int, (Sci	1
Lovett	1979	139	12312	Diss Absti inc, (bei	HCAPLUS
Lundy	1977	 62	 1955	 Cancer Treat Rep	MEDLINE
Lundy	1978	27	132	Surg Forum	MEDLINE
Lundy	1976	4 /	132	US 3669969 A	HCAPLUS
Lunn	1972	 94	173	Toxicol	THE HE
Marinovich	1994	74	1 1 2	TOXICOI	HCAPLUS
Menzel	1979			US 4731366 A	HCAPLUS
Munro	1988	}	1021	Journal of Pharmaceu	1
Nasr	1985		831	Fungicides in Plant	}
Nene	1993	25	-20	, -	HCAPLUS
Ram	1992	35	539	J Med Chem US 3881014 A	HCAPLUS
Regel	1975	105	007	Breast Cancer Resear	
Teicher	1995	36	227		
The American Chemical S			3.5.4	Chemical Abstracts 6	
Thompson, W	1993-	994	154	Agricultural Chemica Private Communicatio	
Von Hoff	1995			I control of the cont	1
Wagner	1968	-		US 3370957 A	HCVDIIIG
Weisenthal	1992	[1	US 5149527 A	HCAPLUS
Wilde	1994			US 5310748 A	HCAPLUS
Wilde	1994	1		US 5364875 A	HCAPLUS

^{=&}gt; d 133 ibib abs hitstr retable 2- YOU HAVE REQUESTED DATA FROM 16 ANSWERS - CONTINUE? Y/(N):n

^{=&}gt; d 133 ibib abs hitstr retable 2-12

L33 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2 ACCESSION NUMBER: 2002:889200 HCAPLUS

DOCUMENT NUMBER:

137:370090

TITLE:

Preparation of benzimidazolecarbamates for treatment

of cancer or viral infections

INVENTOR(S):

Quada, James C., Jr.; Agyin, Joseph K.; Camden, James

Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

U.S., 20 pp., Cont.-in-part of U.S. Ser. No. 857,811.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

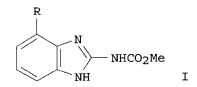
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6482843	B1	20021119	US 2000-676407	20000929
US 6506783	B1	20030114	US 1997-857811	19970516
CN 1254282	Α	20000524	CN 1997-182190	19971126
US 6077862	Α	20000620	US 1999-259969	19990301
AU 763272	B2	20030717	AU 2001-37094	20010418
PRIORITY APPLN. INFO.	:		US 1997-857811 A2	19970516
		•	AU 1998-74027 A3	19971126

OTHER SOURCE(S):

MARPAT 137:370090

GΙ





- Title compds., e.g. [I; R = O2CR1; R1 = alkyl, haloa ____,___στοκγατκγΙ, alkenyl, haloalkenyl, cycloalkyl, cycloalkylalkyl, heterocyhcloalkyl, heterocycloalkyl, (substituted) Ph, PhNH, PhCH2, etc.], were prepared Thus, Me 2-amino-5-hydroxybenzimidazole carbamate and 3,5,5-trimethylhexanoyl chloride were stirred in THF at 23-40° to give I (R = O2CCH2CHMeCH2CMe3). The latter inhibited human colon carcinoma with IC50 = 15.8 μM.
- TT 436809-90-4P 443685-81-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of benzimidazolecarbamates for treatment of cancer or viral infections)

RN 436809-90-4 HCAPLUS

CN Benzoic acid, 3,4,5-trimethoxy-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RN 443685-81-2 HCAPLUS
CN Hexanoic acid, 3,5,5-trimethyl-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RETABLE		_			
Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=======================================	+====-	+==== -	-=====-	+=====================================	+=======
Actor	1975			US 28403 E	HCAPLUS
Adams	1973			US 3738995 A	HCAPLUS
Anderson	1994			US 5329012 A	HCAPLUS
Anon	1965			BE 667158	HCAPLUS
Anon	1968			GB 1123317	HCAPLUS
Anon	1973			FR 2155888	HCAPLUS
Anon	1994			EP 617968	HCAPLUS
Anon	1994			WO 9404541	HCAPLUS
Anon	1995			JP 07-277956	HCAPLUS
Anon	1996			WO 9632103	HCAPLUS
Anon	1996			WO 9632104	HCAPLUS
Anon	1996			WO 9632107	HCAPLUS
Anon	1996			WO 9632115	HCAPLUS
Anon	1996			WO 9640119	HCAPLUS
Anon	1996			WO 9640120	HCAPLUS
Anon	1996			WO 9640122	HCAPLUS
Anon	1997			WO 9705870	HCAPLUS
Anon	1997			WO 9705872	HCAPLUS
Anon	1997			WO 9705873	HCAPLUS
Anon	1998			WO 9832440	HCAPLUS
Anon	1998			WO 9851303	HCAPLUS
Anon	1998	İ		WO 9851304	HCAPLUS
Anon	1999			WO 9959585	HCAPLUS
Anon	2000			WO 0021504	HCAPLUS

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Anon	2000		1	WO 0050007	HCAPLUS
Anon	1968		1035	Merck Index, Eighth	
Anon	1983		777	Stedman's Medical Di	
Atassi	1975	11	599	Europ, J Cancer	HCAPLUS
Aur	1971	78	129	J Pediatr	MEDLINE
Autant	1995			US 5441742 A	HCAPLUS
Beard	1978			US 4086235 A	HCAPLUS
Berg	1992	13	59	Journal of Photochem	HCAPLUS
Bissery	1995	22	3	Seminars in Oncology	İ
Brabender	1976	36	905	Cancer Research	
Brown	1961	83	1764	J Am Chem Soc	HCAPLUS
Camden	1997			US 5629341 A	HCAPLUS
Camden	1997			US 5656615 A	HCAPLUS
Camden	1997			US 5665713 A	HCAPLUS
Camden	1997		i	US 5665751 A	HCAPLUS
Camden	1998	! 	<u> </u>	US 5767138 A	HCAPLUS
Camden	1998	! 	! 	US 5770616 A	HCAPLUS
Camden	1998	! 	 	US 5840742 A	HCAPLUS
Camden	1998	 	 	US 5854231 A	HCAPLUS
Camden	1999		 	US 5872142 A	HCAPLUS
Camden	1999		1	US 5880144 A	HCAPLUS
Camden	1999	! 		US 5900429 A	HCAPLUS
Camden	1999			US 5902804 A	HCAPLUS
Camden	1999	! .		US 5908855 A	HCAPLUS
Camden	1999	l i	<u> </u>	US 5929099 A	HCAPLUS
	1999	l i		US 5932604 A	HCAPLUS
Camden	1999	 		US 5932609 A	HCAPLUS
Camden	2000			US 6025377 A	HCAPLUS
Camden	2000			US 6077862 A	HCAPLUS
Camden	2000	<u> </u>		Ser No 09/562,709	I
Camden	1981	 	362	Chemotherapy of Canc	! !
Carter	1975	 	277	Selective Inhibitors	i i
Carter, W	1976	31	505	Therapie	HCAPLUS
Delatour	!	131	1303	US 3499761 A	IICAFIOS
Dersch	1970 1994			Material Safety Data	<u> </u>
Dupont	1994			US 5434163 A	HCAPLUS
Edlind	1985			05 5454105 K	HCAPLUS
Elgebaly	:	74	811	J Natl Cancer Inst	HCAPLUS
Elgebaly	1985	/4	1011	US 4046906 A	HCAPLUS
Frensch	1977] E 4 4	605	Biochimica et Biophy	•
Friedman	1978	544 264	371	Science	INCAPLOS
Georgopapadakov	1994	204	3/1	Scrence	HCAPLUS
Ghannoum	1990	120	1250	J Org Chem	HCAPLUS
Grenda	1965	30	259	US 4814329 A	HCAPLUS
Harsanyi	1989			US 3956262 A	HCAPLUS
Heyes	1976	1		•	!
Higley	1994			US 5290801 A	HCAPLUS
Karjalainen	1992		607	US 5098923 A	HCAPLUS HCAPLUS
Katiyar	1994		607		1
King	1992	ļ		US 5114951 A	HCAPLUS
Klopping	1970			US 3541213 A	LICADIUC
Koparkar	1994		1.052	US 5284662 A	HCAPLUS
Lacey	1985	34	1073	Biochemical Pharma	HCAPLUS
Lacey	1985	34	3603	Biochemical Pharma	HCAPLUS
Lacey	1988	18	885	International Journa	!
Lapras, M	1975	77	379	Bull Soc Sci Vet et	HCAPLUS
Lassnau	1993	104	119	Chest	
Loux	1961			US 3010968 A	HCAPLUS
Lovett	1979	39	5315	Diss Abstr Int, (Sci	7
Lundy	1997				HCAPLUS
Lundy	1978	62	1955	Cancer Treat Rep	MEDLINE

		l		la p	LMDDI TNIZ	
Lundy	1976	27	132	Surg Forum	MEDLINE	
Lunn	1972	1		US 3669969 A	HCAPLUS	
Marinovich	1994	94	173	Toxicol		
Menzel	1979				HCAPLUS	
Merck & Co	1996	1	7943	Merck Index, 12t	_	
Munro	1988			US 4731366 A	HCAPLUS	
Nene	1993	Ì		Fungicides in Plant		
Ouada	2000	İ		Ser No 09/670,169		
Quada	2000	İ	İ	Ser No 09/670,170		
Quada	2000	İ	Ì	Ser No 09/676,407		
Ram	1992	35	539	J Med Chem	HCAPLUS	
Regel	1975	i	Ì	US 3881014 A	HCAPLUS	
Seabrook	1996	İ		US 5554373 A	HCAPLUS	
Setoi	1998	j	İ		HCAPLUS	
Teicher	1995	36	227	Breast Cancer Resear	HCAPLUS	
Thompson, W	1994		154	Agricultural Chemica		
Vergieva	1983	İ	İ	į -	HCAPLUS	
Vonn Hoff	1995	İ	İ	Private Communication	İ	
Wagner	1968		Ì	US 3370957 A	İ	
Weisenthal	1992	İ	İ	US 5149527 A	HCAPLUS	
Wilde	1994	İ	0	US 5310748 A	HCAPLUS	
Wilde	1994	İ	i	US 5364875 A	HCAPLUS	
WIIde	1	1	•	1	•	
L33 ANSWER 3 OF 17 H	CAPLUS	COPYR	IGHT 20	004 ACS on STN DUPLICA	TE 3	
ACCESSION NUMBER: 2002:551611 HCAPLUS						

DOCUMENT NUMBER: TITLE:

137:109276 Preparation of methyl 1H-benzimidazole-2-carbamates

for treating cancer or viral infections

INVENTOR(S):

h K.; Quada, James Camden, Ja

C., Jr.

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

SOURCE:

The Procte

U.S., 19 I

CODEN: US

Patent

KIND DATE

_ _ _ _ B1

В1

A

Α

B2

English LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

US 6423736 🗸

US 6506783 🗸

CN 1254282

DATE	APPLICATION NO.	DATE
		
20020723	US 2000-676409	20000929
20030114	US 1997-857811	19970516
20000524	CN 1997-182190	19971126
20000620	US 1999-259969	19990301

US 6077862 √ AU 763272 PRIORITY APPLN. INFO.:

AU 2001-37094 20010418 US 1997-857811 A2 19970516 AU 1998-74027 A3 19971126

OTHER SOURCE(S):

MARPAT 137:109276

20030717

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m GI}$

- AB The title compds. [I (R = OCORa; Ra = (un)substituted Ph), II (R = CONR1R2, CO2R1, OCOR1, NHCOR1; R1 = alkyl, haloalkyl, cycloalkyl, etc.; R2 = H, alkyl)] were prepared Thus, reacting Me 2-amino-5-hydroxybenzimidazolecarbamate with 3,5,5-trimethylhexanoyl chloride in THF afforded 57% I [R = OCOCH2CHMeCH2CMe3] which showed IC50 of 20.1 μM and IC50 of 15.8 μM for growth inhibition of B16 murine melanoma cells and H29 human colon cancer cells, resp. Such compds. I may be used in combination with a chemotherapeutic agent and/or a potentiator.
- IT 436809-90-4P 443685-81-2P

 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of Me benzimidazole-2-carbamates for treating cancer or viral infections)

- RN 436809-90-4 HCAPLUS
- CN Benzoic acid, 3,4,5-trimethoxy-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RN 443685-81-2 HCAPLUS

Anderson

CN Hexanoic acid, 3,5,5-trimethyl-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

1994

RETABLE |Year | VOL | PG Referenced Work Referenced Referenced Author (RPY) | (RVL) | (RPG) File (RWK) (RAU) _+_____+ 1973 US 3738995 A HCAPLUS Adams Agarwal 1993 32B 453 Indian J Chem, Sect | HCAPLUS Z Naturforsch, C: Bi HCAPLUS 829 Agarwal 1993 48

US 5329012 A

HCAPLUS

Anon					
Anon	1965			BE 667158	HCAPLUS
Anon	1973			FR 2155888	HCAPLUS
Anon	1987			IN 158878 A	HCAPLUS
Anon	1987			IN 159210 A	HCAPLUS
Anon	1994			EP 617968	HCAPLUS
Anon	1994			WO 9404541	HCAPLUS
Anon	1995			JP 07-277956	HCAPLUS
Anon	1996			WO 9632103	HCAPLUS
Anon	1996			WO 9632104	HCAPLUS
Anon	1996			WO 9632107	HCAPLUS
Anon	1996			WO 9632115	HCAPLUS
Anon	1996			WO 9640119	HCAPLUS
Anon	1996		j	WO 9640120	HCAPLUS
Anon	1996		ĺ	WO 9640122	HCAPLUS
Anon	1997		j	WO 9705870	HCAPLUS
Anon	1997		j	WO 9705872	HCAPLUS
Anon	1997		İ	WO 9705873	HCAPLUS
Anon	1998		İ	WO 9832440	HCAPLUS
Anon	1998		į	WO 9851303	HCAPLUS
Anon	1998			WO 9851304	HCAPLUS
Anon	1999			WO 9959585	HCAPLUS
Anon	1996		7943	Merck Index, 12t	1
Anon	1968		1035	Merck Index, Eighth	l i
Anon	1983		777	Stedman's Medical Di	İ
Atassi	1975	11	599	Europ, J Cancer	HCAPLUS
Aur	1971	78	129	J Pediatr	MEDLINE
Beard	1978		Ì	US 4086235 A	HCAPLUS
Beard	1978		İ	US 4086235 A	HCAPLUS
Bissery	1995	22	3	Seminars in Oncology	İ
Brabender	1976	36	905	Cancer Research	İ
Brown	1961	83	1764	J Am Chem Soc	HCAPLUS
Camden	1997			US 5629341 A	HCAPLUS
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Camden	1997		i	US 5665713 A	HCAPLUS
Camden	1997		i	US 5665751 A	HCAPLUS
Camden	1998	! 	i	US 5767138 A	HCAPLUS
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Camden	1998	! 		US 5854231 A	HCAPLUS
Camden	1999	! 	<u> </u>	US 5872142 A	HCAPLUS
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Camden	1999	! 	i	US 5900429 A	HCAPLUS
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Camden	1999			US 5929099 A	HCAPLUS
Camden	1999			US 5932604 A	HCAPLUS
Camden	1999			US 5932609 A	HCAPLUS
Camden	2000		i	US 6025377 A	HCAPLUS
Camden	2000		i	US 6077862 A	HCAPLUS
Camden	2000	ľ	l	US 6090796 A	HCAPLUS
Camden	2000			US 6110953 A	HCAPLUS
Camden	2000	i		US 6136835 A	HCAPLUS
Camden	2001	i	1	US 6177460 B1	HCAPLUS
Camden	2001			US 6200992 B1	HCAPLUS
Camden	2001	! 		US 6228876 B1	HCAPLUS
Camden	2001	! 		US 6245789 B1	HCAPLUS
	2001		,	US 6251870 B1	HCAPLUS
Camden Camden	2001	! !	-	US 6262093 B1	HCAPLUS
	!			US 6265427 B1	HCAPLUS
Camden	2001	I	I	DD 020342/ DI	LUCAPHOS

				1	
Camden	2001			US 6271217 B1	HCAPLUS
Carter	1981		362	Chemotherapy of Canc	
Carter, W	1975		277	Selective Inhibitors	***********
Delatour	1976	31	505	Therapie	HCAPLUS
Dersch	1970			US 3499761 A	
Divakar	1989	28B	252	Indian J Chem, Sect	HCAPLUS
Dubey	1985	24B	408	Indian J Chem, Sect	HCAPLUS
Dubey	1985	28	1748	J Med Chem	HCAPLUS
Dupont	1994			Material Safety Data	1107 DI 110
Edlind	1995			US 5434163 A	HCAPLUS
Elgebaly	1985			T Wat 1 Carrest Treet	HCAPLUS
Elgebaly	1985	74	811	J Natl Cancer Inst	HCAPLUS
Frensch	1977			1	HCAPLUS
Friedman	1978	544	605	Biochimica et Biophy	
Gao	1989	20	110	Zhongguo Yiyao Gongy Science	HCAPLUS
Georgopapadakov	1994	264	371	Science	IICA DI IIC
Ghannoum	1990	20		I Oran Cham	HCAPLUS
Grenda	1965	30	259	J Org Chem	HCAPLUS
Harsanyi ,	1989			US 4814329 A	HCAPLUS
Heyes	1976	!		US 3956262 A	HCAPLUS HCAPLUS
Higley	1994		!	US 5290801 A	!
Karjalainen	1992	}	607	US 5098923 A	HCAPLUS
Katiyar	1994		607	110 5114051 7	HCAPLUS
King	1992	!		US 5114951 A US 3541213 A	HCAPLUS
Klopping	1970	1200	11077	Indian J Chem, Sect	DONDI HO
Kumar	1990	29B	1077	J Med Chem	HCAPLUS HCAPLUS
Kumar	1984	27	1083	Biochemical Pharma	HCAPLUS
Lacey	1985	34 34	1073 3603	Biochemical Pharma	HCAPLUS
Lacey	1985	1	885	International Journa	!
Lacey	1988	18 77	379	Bull Soc Sci Vet et	HCAPLUS
Lapras, M	1975 1993	104	1119	Chest	HCAPLOS
Lassnau	1961	104	1 1 1 2	US 3010968 A	 HCAPLUS
Loux	1979	39	5315	Diss Abstr Int, (Sci	I
Lovett	1997	33	12212	Diss Absel life, (Bel	HCAPLUS
Lundy	1978	62	1955	Cancer Treat Rep	MEDLINE
Lundy Lundy	1976	27	132	Surg Forum	MEDLINE
Lunn	1972	121	122	US 3669969 A	HCAPLUS
Marinovich	1994	94	173	Toxicol	l I
Menzel	1979	7 =	1 7 3	IOXICOI	HCAPLUS
Munro	1988			US 4731366 A	HCAPLUS
Naim	1990	29B	464	Indian J Chem, Sect	HCAPLUS
Nasr	1985	22 7 12	831	Journal of Pharmaceu	
Nene	1993		051	Fungicides in Plant	
Ram	1992	35	539	J Med Chem	HCAPLUS
Regel	1975			US 3881014 A	HCAPLUS
Teicher	1995	36	227	Breast Cancer Resear	•
Thompson, W	1993-	994	154	Agricultural Chemica	
Vergieva	1982				HCAPLUS
Visen	1987	25	695	Indian J Exp Bio	HCAPLUS
Von Hoff	1995			Private Communicatio	l .
Wagner	1968			US 3370957 A	j
Weisenthal	1992	ĺ		US 5149527 A	HCAPLUS
Wilde	1994		İ	US 5310748 A	HCAPLUS
Wilde	1994			US 5364875 A	HCAPLUS
· , 		•	•	1	,

L33 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4

ACCESSION NUMBER:

2002:551610 HCAPLUS

DOCUMENT NUMBER:

137:109275

TITLE:

Preparation of methyl 1H-benzimidazole-2-carbamates

INVENTOR(S):

for treating cancer or viral infections

Camden, James Berger; Quada, James C., Jr.; Agyin,

Joseph K.

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

U.S., 17 pp., Cont. of U.S. Ser. No. 857,811.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

Fudit

PATENT INFORMATION:

PATENT NO.	KIND	DATE	AF APPLICANO
US 6423735	В1	20020723	us
US 6506783 √	B1	20030114	us
CN 1254282	Α	20000524	CN
US 6077862 ✓	Α	20000620	US
AU 763272	B2	20030717	AU 2001-37094 20010418
PRIORITY APPLN. INFO.	:		US 1997-857811 A2 19970516
•			AU 1998-74027 A3 19971126

OTHER SOURCE(S):

MARPAT 137:109275

GI

AB The title compds. [I (R = OCORa; Ra = (un)substituted Ph), II (R = CONR1R2, CO2R1, OCOR1, NHCOR1; R1 = alkyl, haloalkyl, cycloalkyl, etc.; R2 = H, alkyl)] were prepared Thus, reacting Me 2-amino-5-hydroxybenzimidazolecarbamate with 3,5,5-trimethylhexanoyl chloride in THF afforded 57% I [R = OCOCH2CHMeCH2CMe3] which showed IC50 of 20.1 μM and IC50 of 15.8 μM for growth inhibition of B16 murine melanoma cells and H29 human colon cancer cells, resp. Such compds. I may be used in combination with a chemotherapeutic agent and/or a potentiator such as DNA-interactive agent, an antimetabolite, a tubulin-interactive agent, a hormonal agent, an antihormonal antigen, and an adrenal corticosteroid.

IT 436809-90-4P 443685-81-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of Me benzimidazole-2-carbamates for treating cancer or viral infections)

RN 436809-90-4 HCAPLUS

CN Benzoic acid, 3,4,5-trimethoxy-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RN 443685-81-2 HCAPLUS

CN Hexanoic acid, 3,5,5-trimethyl-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

R	EΠ	תיח	R	т:	_
ĸ	L	Н	о.	ы.	r.

RETABLE					
Referenced Author	Year	VOL	PG	Referenced Work	Referenced
(RAU)	(RPY)	(RVL)	(RPG)	(RWK)	File
=======================================	+=====	+=====	+=====	+=====================================	+========
Adams	1973			US 3738995 A	HCAPLUS
Anderson	1994			US 5329012 A	HCAPLUS
Anon					
Ànon	1965			BE 667158	HCAPLUS
Camden	1997			US 5629341 A	HCAPLUS
Camden	1997			US 5656615 A	HCAPLUS
Camden	1997			US 5665713 A	HCAPLUS
Camden	1997			US 5665751 A	HCAPLUS
Camden	1998			US 5767138 A	HCAPLUS
Camden	1998			US 5770616 A	HCAPLUS
Camden	1998			US 5840742 A	HCAPLUS
Camden	1998	İ		US 5854231 A	HCAPLUS
Camden	1999			US 5872142 A	HCAPLUS
Camden	1999	j		US 5880144 A	HCAPLUS
Camden	1999			US 5900429 A	HCAPLUS
Camden	1999			US 5902804 A	HCAPLUS
Camden	1999			US 5908855 A	HCAPLUS
Camden	1999	1		US 5929099 A	HCAPLUS
Camden	1999	1		US 5932604 A	HCAPLUS
Camden	1999			US 5932609 A	HCAPLUS
Camden	2000			US 6025377 A	HCAPLUS
Camden	2000			US 6077862 A	HCAPLUS
Camden	2000			US 6090796 A	HCAPLUS
Camden	2000			US 6110953 A	HCAPLUS

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

GΙ

Camden	2000			US	6136835	A	HCAPLUS
Camden	2001	Ì	1	US	6177460	B1	HCAPLUS
Camden	2001	j	İ	US	6200992	B1.	HCAPLUS
Camden	2001	į	į	US	6228876	B1 .	HCAPLUS
Camden	2001	İ	į	US	6245789	B1	HCAPLUS
Camden	2001	i	i	บร	6251870	B1	HCAPLUS
Camden	2001	İ	· i	บร	6262093	B1	HCAPLUS
Camden	2001	į			6265427		HCAPLUS
Camden	2001	i			6271217		HCAPLUS
Dersch	1970	i		!	3499761		
	1995			!	5434163		HCAPLUS
Edlind	1977	-			4046906		HCAPLUS
Frensch	!!!	!		!	4814329		HCAPLUS
Harsanyi	1989				3956262		HCAPLUS
Heyes	1976						:
Higley	1994			ļ .	5290801		HCAPLUS
Karjalainen	1992			!	5098923		HCAPLUS
King	1992	ļ		!	5114951		HCAPLUS
Klopping	1970	ļ			3541213		·
Latif	1993 4	6	203		J Med S		HCAPLUS
Loux	1961			,	3010968		HCAPLUS
Lunn	1972	1		US	3669969	A	HCAPLUS
Munro	1988				4731366		HCAPLUS
Nasr	1985	ĺ	831	Jou	rnal of	Pharmaceu	HCAPLUS
Regel	1975	Ì		US	3881014	A	HCAPLUS
Wagner	1968	Ì		บร	3370957	A	1
Weisenthal	1992	i		US	5149527	A	HCAPLUS
Wilde	1994	i		US	5310748	A	HCAPLUS
Wilde	1994	ļ			5364875		HCAPLUS
WIIde	1 1	,					•
L33 ANSWER 5 OF 17 HC	APLUS C	OPVRT	GHT 200	04 A	CS on Si	rn DUPLICA	TE 5
ACCESSION NUMBER:	2002:5						
DOCUMENT NUMBER:	137:93		110711				
			of 2 !	5-46	cubetiti	ited henzi	midazoles used
TITLE:	in the	tron	tmont of	of a	subscict	r viral in	fections
T1T1T1TOD (G)							; Quada, James
INVENTOR (S):			ies peri	ger;	Agyın,	oosepn K.	, Quada, balles
	C., Jr				·		
PATENT ASSIGNEE(S):	The Pr						er. No. 857,811.
SOURCE:	U.S.,				a1.		SI. NO. 857,811.
_	CODEN:		AM C	2D	Dica	NX	•
DOCUMENT TYPE:	Patent		-	1//	plica	100	!
LANGUAGE:	Englis	h		,			
FAMILY ACC. NUM. COUNT:	7						
PATENT INFORMATION:						1	
						1	
PATENT NO. K	IND DAT	Έ	1			. [E
		-	. '				
* ·		20716			2000-67		00929
US 6506783 🗸		30114			1997-85		70516
CN 1254282	A 200	00524			1997-182		71126
US 6077862√	A 200	00620)		1999-25		90301
AU 763272	B2 200	30717			2001-37	· ·	10418
DETORITY ADDING INTO			IIC	199	7-85781	1 A2 199	70516

MARPAT 137:93753

US 1997-857811 A2 19970516 AU 1998-74027 A3 19971126

$$\begin{array}{c|c} O & & & H & OMe \\ \hline \\ R1 & & N & H & O \\ \end{array}$$

Title compds. I [R1 = (halo)alkyl, hydroxyalkyl, (halo)alkenyl, cycloalkyl, heterocycloalkyl, substituted Ph and analogs thereof] were prepared For instance, Me 5-amino-1H-benzimidazol-2-ylcarbamate was acylated with 3,5,5-trimethylhexanoyl chloride to provide I (R1 = CH2CH(CH3)CH2C(CH3)3; II). II had IC50 = 6.6 and 7.0 μM for the murine melanoma and human colon carcinoma cell line resp. I are used for the treatment of cancers or viral infections and may be used in combination with a chemotherapeutic agent and/or a potentiator.

IT 436809-90-4P, Benzoic acid, 3,4,5-trimethoxy-,
2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)

(drug; preparation of substituted benzimidazole-2-carbamates as antiviral/antitumor agents)

RN 436809-90-4 HCAPLUS

CN Benzoic acid, 3,4,5-trimethoxy-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RETABLE Referenced Author (RAU)	Year (RPY)	VOL	PG (RPG)	Referenced Work	Referenced
Adams Agarwal Agrawal Anderson Anon Anon Anon Anon Anon Anon Anon A	1973 1993 1983 1994 1965 1973 1994 1996 1996	48 22B 	829 146	US 3738995 A Z Naturforsch, C: Bi Indian J Chem, Sect US 5329012 A JP 07277956 BE 667158 FR 2155888 WO 9404541 WO 9632103 WO 9632104 WO 9632107	HCAPLUS HCAPLUS HCAPLUS HCAPLUS HCAPLUS HCAPLUS HCAPLUS HCAPLUS HCAPLUS HCAPLUS

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Anon	1996	1	1	WO 9632115	HCAPLUS
Anon	1996	İ		WO 9640119	HCAPLUS
	1996	ĺ	ĺ	WO 9640120	HCAPLUS
Anon	1996		İ	WO 9640122	HCAPLUS
	1997	Ì	į	WO 9705870	HCAPLUS
Anon	1997	İ		WO 9705872	HCAPLUS
Anon	1997	i	i	WO 9705873	HCAPLUS
Anon	1998	i		WO 9832440	HCAPLUS
Anon	1998			WO 9851303	HCAPLUS
i	1998	ľ		WO 9851304	HCAPLUS
Anon	1999	ŀ		WO 9959585	HCAPLUS
Anon	1996	ŀ	7943	Merck Index, 12t	
Anon	1968	}	1035	Merck Index, Eighth	
Anon	1983		777	Stedman's Medical Di	
Anon		11	599	J Cancer	HCAPLUS
Atassi	1975	78	129	J Pediatr	MEDLINE
Aur	1971	22	3	Seminars in Oncology	MEDBIND
Bissery	1995		905	Cancer Research	
Brabender	1976	36	-	J Am Chem Soc	HCAPLUS
Brown	1961	83	1764	US 5629341 A	HCAPLUS
Camden	1997			US 5629341 A	HCAPLUS
Camden	1997			1	HCAPLUS
Camden	1997			US 5665713 A	HCAPLUS
Camden	1997			US 5665751 A	
Camden	1998			US 5767138 A	HCAPLUS
Camden	1998			US 5770616 A	HCAPLUS
Camden	1998			US 5840742 A	HCAPLUS
Camden	1998			US 5854231 A	HCAPLUS
Camden	1999			US 5872142 A	HCAPLUS
Camden	1999			US 5880144 A	HCAPLUS
Camden	1999			US 5900429 A	HCAPLUS
Camden	1999			US 5902804 A	HCAPLUS
Camden	1999			US 5908855 A	HCAPLUS
Camden	1999			US 5929099 A	HCAPLUS
Camden	1999			US 5932604 A	HCAPLUS
Camden	1999			US 5932609 A	HCAPLUS
Camden	2000			US 6025377 A	HCAPLUS
Camden	2000	1		US 6077862 A	HCAPLUS
Camden	2000			US 6090796 A	HCAPLUS
Camden	2000	ĺ		US 6110953 A	HCAPLUS
Camden	2000	j		US 6136835 A	HCAPLUS
Camden	2001	İ	ĺ	US 6177460 B1	HCAPLUS
Camden	2001	Ì	İ	US 6200992 B1	HCAPLUS
Camden	2001	Ì	j	US 6228876 B1	HCAPLUS
Camden	2001	İ	İ	US 6245789 B1	HCAPLUS
Camden	2001	İ		US 6251870 B1	HCAPLUS
Camden	2001	i	İ	US 6262093 B1	HCAPLUS
Camden	2001	İ	į.	US 6265427 B1	HCAPLUS
Camden	2001		İ	US 6271217 B1	HCAPLUS
Carter	1981	ì	362	Chemotherapy of Canc	İ
Carter, W	1975	l	277	Selective Inhibitors	
Delatour	1976	31	505	Therapie	HCAPLUS
Deracoul	1970	-		US 3499761 A	
Divakar	1989	28B	252	Indian J Chem, Sect	HCAPLUS
	1994	2.00	232	Material Safety Data	1
Dupont	!		1	US 5434163 A	HCAPLUS
Edlind	1995 1985			100 2424402 14	HCAPLUS
Elgebaly	!	174	011	J Natl Cancer Inst	HCAPLUS
Elgebaly	1985	74	811	US 4046906 A	HCAPLUS
Frensch	1977.	- 4.4	1.05	Biochimica et Biophy	
Friedman	1978	544	605		 TCWLTOD
Georgopapadakov	1994	264	371	Science	I

Ghannoum	1990			_	HCAPLUS
Grenda	1965	30	259	J Org Chem	HCAPLUS
Harsanyi	1989			US 4814329 A	HCAPLUS
Heyes	1976			US 3956262 A	HCAPLUS
Higley	1994			US 5290801 A	HCAPLUS
Karjalainen	1992			US 5098923 A	HCAPLUS
Katiyar	1994				HCAPLUS
King	1992	į		US 5114951 A	HCAPLUS
Klopping	1970	ĺ		US 3541213 A	
Kumar	1984	27	1083	J Med Chem	HCAPLUS
Lacey	1985	34	1073	Biochemical Pharma	HCAPLUS
Lacey	1985	34	3603	Biochemical Pharma	HCAPLUS
Lacey	1988	18	885	International Journa	HCAPLUS
Lapras, M				Bull Soc Sci Vet et	
Lassnau	1993	104	119	Chest	
Loux	1961		i	US 3010968 A	HCAPLUS
Lovett	1979	39	5315	Diss Abstr Int, (Sci	
Lundy	1997	i			HCAPLUS
Lundy	1978	62	1955	Cancer Treat Rep	MEDLINE
Lundy	1976	27	132	Surg Forum	MEDLINE
Lunn	1972		j	US 3669969 A	HCAPLUS
Lyon	1975	77	379		
Marinovich	1994	94	173	Toxicol	
Menzel	1979	ļ	İ		HCAPLUS
Munro	1988	Ì	İ	US 4731366 A	HCAPLUS
Nasr	1985	İ	831	Journal of Pharmaceu	HCAPLUS
Nene	1993	i	,	Fungicides in Plant	
Niwas	• •		1	Indian J Chem, Sect	HCAPLUS
Rajappa			3	Indian J Chem, Sect	HCAPLUS
Rajappa		1	1	J Chem Res, Synop	HCAPLUS
Rajappa	dia	$\mathcal{M}^{\mathcal{N}}$	¹ 5	Tetrahedron Lett	HCAPLUS
Ram	$J \mathcal{U}$	<i>/</i> ·	1	J Med Chem	
Regel			1	US 3881014 A	HCAPLUS
Sawhney			1	Indian J Chem, Sect	
Sokhanenkova			1	Tr Gel'mintol Lab, A	HCAPLUS
Srivastava			1	Pharmazie	HCAPLUS
Teicher		·	1227	Breast Cancer Resear	HCAPLUS
Thompson, W	11993-	994	154	Agricultural Chemica	İ
Vergieva	1982	İ			HCAPLUS
Von Hoff	1995	İ	İ	Private Communicatio	į
Wagner	1968	İ	İ	US 3370957 A	İ
Weisenthal	1992		İ	US 5149527 A	HCAPLUS
Wilde	1994	İ	İ	US 5310748 A	HCAPLUS
Wilde	1994	İ	į	US 5364875 A	HCAPLUS
	•		•	•	-

L33 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6

ACCESSION NUMBER:

2002:461292 HCAPLUS

DOCUMENT NUMBER:

INVENTOR(S):

137:33301

TITLE:

Preparation of 2,5-disubstituted benzimidazoles used

in the treatment of cancer or viral infections Quada, James C., Jr.; Agyin, Joseph K.; Camden, James

Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

U.S., 18 pp., Cont.-in-part of U.S. Ser. No. 857,811.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6407131	B1	20020618	US 2000-676030	20000929
US 6506783 √	B1	20030114	US 1997-857811	19970516
CN 1254282	A	20000524	CN 1997-182190	19971126
US 6077862 √	A	20000620	US 1999-259969	19990301
AU 763272	B2	20030717	AU 2001-37094	20010418
PRIORITY APPLN. INFO.	:		US 1997-857811 / A2	19970516
			AU 1998-74027 A3	19971126

OTHER SOURCE(S):

MARPAT 137:33301

GI

$$\begin{array}{c|c} O & & N & O \\ \hline \parallel & \parallel & N \\ R1 & O & & M \\ \hline M & M & C \\ \hline \end{array} \\ \begin{array}{c} O \\ \parallel \\ M \\ \end{array} \\ \begin{array}{c} O \\ \parallel \\ M \\ \end{array} \\ \begin{array}{c} O \\ \parallel$$

AB Title compds. I [R1 = (halo)alkyl, hydroxyalkyl, (halo)alkenyl, cycloalkyl, heterocycloalkyl, substituted Ph and analogs thereof] were prepared For instance, Me 2-amino-5-hydroxybenzimidazole carbamate was acylated with 3,5,5-trimethylhexanoyl chloride to provide I (R1 = CH2CH2CH(CH3)CH2C(CH3)3; II). II had IC50 = 20.1 and 15.8 μM for the murine melanoma and human colon carcinoma cell line resp. I are used for the treatment of cancers or viral infections and may be used in combination with a chemotherapeutic agent and/or a potentiator.

IT 436809-90-4P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug; preparation of substituted benzimidazole-2-carbamates as antiviral/antitumor agents)

RN 436809-90-4 HCAPLUS

CN Benzoic acid, 3,4,5-trimethoxy-, 2-[(methoxycarbonyl)amino]-1H-benzimidazol-4-yl ester (9CI) (CA INDEX NAME)

RETABLE

Referenced Author | Year | VOL | PG | Referenced Work | Referenced

(RAU)	'	(RVL)		(RWK)	File
=======================================		+====+ '	-=====		
Actor	1975			US RE28403 E	
Adams	1973			US 3738995 A	HCAPLUS
American Chemical Socie	2001			No publication given	
Anderson	1994			US 5329012 A	HCAPLUS
Anon					
Anon	1968			GB 1123317	HCAPLUS
Anon	1973			FR 2155888	HCAPLUS
Anon	1976	ĺ		WO 9632107	HCAPLUS
Anon	1994			EP 617968	HCAPLUS
Anon	1994	i		WO 9404541	HCAPLUS
Anon	1995			JP 07277956	HCAPLUS
Anon	1995			JP 07277956	HCAPLUS
Anon	1996			WO 9632103	HCAPLUS
Anon	1996			WO 9632104	HCAPLUS
Anon	1996			WO 9632115	HCAPLUS
Anon	1996			WO 9640119	HCAPLUS
Anon	1996			WO 9640120	HCAPLUS
	1996			WO 9640122	HCAPLUS
Anon	1997			WO 9705870	HCAPLUS
Anon	1997	 		WO 9705872	HCAPLUS
Anon		! !		WO 9705872	HCAPLUS
Anon	1997			WO 9703873 WO 9832440	HCAPLUS
Anon	1998	 		WO 9851303	HCAPLUS
Anon	1998	1		WO 9851303	HCAPLUS
Anon	1998	ļ		!	HCAPLUS
Anon	1999			WO 9959585	HCAPLUS
Anon	2000	<u> </u>		WO 0021504	!
Anon	2000			WO 0050007	HCAPLUS
Anon	1996	!	7943	Merck Index, 12t	1
Anon	1968	ļ	1035	Merck Index, Eighth	
Anon	1983		777	Stedman's Medical Di	
Atassi	1975	11	599	Europ, J Cancer	HCAPLUS
Aur	1971	78	129	J Pediatr	MEDLINE
Autant	1995			US 5441742 A	HCAPLUS
Berg	1992	13	59	Journal of Photochem	
Berg	1992	13	59	Journal of Photochem	HCAPLUS
Bissery	1995	22	3	Seminars in Oncology	
Brabender	1976	36	905	Cancer Research	
Brown	1961	83	1764	J Am Chem Soc	HCAPLUS
Camden	1997			US 5629341 A	HCAPLUS
Camden	1997			US 5656615 A	HCAPLUS
Camden	1997		[US 5665713 A	HCAPLUS
Camden	1997		ļ.,	US 5665751 A	HCAPLUS
Camden	1998			US 5767138 A	HCAPLUS
Camden	1998		· ·	US 5770616 A	HCAPLUS
Camden	1998			US 5840742 A	HCAPLUS
Camden	1998			US 5854231 A	HCAPLUS
Camden	1999			US 5872142 A	HCAPLUS
Camden	1999			US 5880144 A	HCAPLUS
Camden	1999			US 5900429 A	HCAPLUS
Camden	1999			US 5902804 A	HCAPLUS
Camden	1999			US 5908855 A	HCAPLUS
Camden	1999	Ì	İ	US 5929099 A	HCAPLUS
Camden	1999	į	İ	US 5932604 A	HCAPLUS
Camden	1999	j	į	US 5932609 A	HCAPLUS
Camden	2000	İ	i	US 6025377 A	HCAPLUS
Camden	2000		i	US 6077862 A	HCAPLUS
Camden	2000	i		US 6090796 A	HCAPLUS
Camden	2000	i		US 6110953 A	HCAPLUS
Camacii	12000	1	I	1	1

Camden	2000			US 6136835 A	HCAPLUS
Camden	2001			US 6177460 B1	HCAPLUS
Camden	2001			US 6200922 B1	HCAPLUS
Camden	2001			US 6228876 B1	HCAPLUS
Camden	2001		-	US 6245789 B1	HCAPLUS
Camden	2001			US 6251870 B1	HCAPLUS
Camden	2001			US 6262093 B1	HCAPLUS
Camden	2001			US 6265427 B1	HCAPLUS
Camden	2001		-	US 6271217 B1	HCAPLUS
Carter	1981		362	Chemotherapy of Canc	
Carter, W	1975		277	Selective Inhibitors	
Delatour	1976	31	505	Therapie	HCAPLUS
Dersch	1970			US 3499761 A	
Dupont	1994		ļ	Material Safety Data	
Edlind	1995		ļ	US 5434163 A	HCAPLUS
Elgebaly	1985				HCAPLUS
Elgebaly	1985	74	811	J Natl Cancer Inst	HCAPLUS
Frensch	1977			US 4046906 A	HCAPLUS
Friedman	1978	544	605	Biochimica et Biophy	HCAPLUS
Georgopapadakov	1994	264	371	Science	
Ghannoum	1990				HCAPLUS
Grenda	1965	30	259	J Org Chem	HCAPLUS
Harsanyi	1989]	ļ	US 4814329 A	HCAPLUS
Heyes	1976	!		US 3956262 A	HCAPLUS
Higley	1994			US 5290801 A	HCAPLUS
Karjalainen	1992			US 5098923 A	HCAPLUS
Katiyar	1994	!	ļ		HCAPLUS
King	1992			US 5114951 A	HCAPLUS
Klopping	1970		ļ	US 3541213 A	
Koparkar	1994			US 5284662 A	HCAPLUS
Lacey	1985	34	1073	Biochemical Pharma	HCAPLUS
Lacey	1985	34	3603	Biochemical Pharma	HCAPLUS
Lacey	1988	18	885	International Journa	!
Lapras, M	1975	77	37,9	Bull Soc Sci Vet et	HCAPLUS
Lassnau	1993	104	119	Chest	
Latif	1993	46	203	Jpn J Med Sci Biol	HCAPLUS
Loux	1961	120		US 3010968 A	HCAPLUS
Lovett	1979	39	5315	Diss Abstr Int, (Sci	
Lundy	1997	60		Garage Breach Born	HCAPLUS
Lundy	1978	62	1955	Cancer Treat Rep	MEDLINE
Lundy	1976	27	132	Surg Forum	MEDLINE HCAPLUS
Lunn	1972	04	172	US 3669969 A Toxicol	HCAPLUS
Marinovich	1994	94	173	TOXICOI	HCAPLUS
Menzel	1979			US 4731366 A	HCAPLUS
Munro	1988			Fungicides in Plant	HCAPLUS
Nene	1993	125	L20		HCAPLUS
Ram	1992	35	539	J Med Chem US 3881014 A	HCAPLUS
Regel	1975 1996	ļ L	}	US 5554373 A	HCAPLUS
Seabrook Teicher	1995	36	227	Breast Cancer Resear	1
	!	994	1	Agricultural Chemica	
Thompson, W	1993 <i>-</i>	 	154	Agricultural Chemica	HCAPLUS
Vergieva Von Hoff	1995			Private Communicatio	!
	•		1	US 3370957 A	
Wagner Weisenthal	1968 1992			US 5149527 A	HCAPLUS
Weisenthai Wilde	1994			US 5310748 A	HCAPLUS
	1994			US 5364875 A	HCAPLUS
Wilde	1 224	I	I	100 0304070 A	ITCALDOD

L33 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7 ACCESSION NUMBER: 1999:487286 HCAPLUS

DOCUMENT NUMBER:

131:116236

TITLE:

Preparation of heterocyclylbenzamide derivatives as

vasopressin antagonists

INVENTOR(S):

Setoi, Hiroyuki; Ohkawa, Takehiko; Sawada, Yuki;

Osoda, Kazuhiko; Oku, Teruo

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 102 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

Τ

PATENT INFORMATION:

	PAT	ENT 1	. OI		KIN	1D	DATE			A	PPL:	ICAT	ION	1 NC).	DATE				
	WO	99376	 637		 A 1	 L	1999	 0729		- W	0 1	 999-	 JP7	 72	-	1999	0111			
							HU, DE								TE.	IT,	IЛ.	MC.	NT.	
		1000	PT,		C11,	01,	22,	Dic,	20,	,		, 32	, ,	,,,	,	,	20,	,	112,	
	ΑU	99178	856		A 1	L	1999	0809		Α	U 1:	999-	178	356		1999	0111			
	EΡ	10514	415		A:	L	2000	1115		Ε	P 1	999-	900	17ϵ	5	1999	0111			
	ΕP	10514	415		B1	L	2003	0924												
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT	, I	ūΙ,	LU,	NL,	SE,	PT,	ΙE,	FI
	JΡ	2002	5134	25	T	2	2002	0508		J	P 1	999-	538	3151	L	1999	0111			
	ΑT	2505	99		\mathbf{E}		2003	1015		Α	T 1:	999-	900	176	5	1999	0111			
	ES	22030	057		T3	3	2004	0401		E	S 1:	999-	900	176	5	1999	0111			
	US	6495!	542		_ B1	Ĺ	2002	1217		U	S 2	000-	600	857	7	2000	1016			
PRIOR	ZTIS	APP	LN.	INFO.	./:				Ĭ	AU 1	998	-150	0	1	Α	1998	0127			
					•				Ţ	WO 1	999	-JP7	2	1	W	1999	0111			

OTHER SOURCE(S):

MARPAT 131:116236

AB The title compds. I [A is an optionally substituted heterocyclic group; R is a lower alkoxy; Z is CO or CH2; and B is a saturated or unsatd. condensed ring group selected from the group consisting of benzazepinyl, benzodiazepinyl, pyridoazepinyl, pyridodiazepinyl, thienoazepinyl, benzoxazepinyl, benzothiazepinyl, imidazobenzazepinyl, pyridobenzoxazepinyl and indolinyl, each member being optionally substituted] are prepared In an in vitro test for human vasopressin 1 receptor antagonism, 2-methoxy-N-(2-methyl-1H-benzimidazol-4-yl)-4-(2,3,4,5-tetrahydro-1H-1-benzazepin-1-yl)carbonylbenzamide showed IC50 of 0.41 nM.

IT 233263-10-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclylbenzamide derivs. as vasopressin antagonists)

233263-10-0 HCAPLUS RN

Carbamic acid, [4-[[2-methoxy-4-[(2,3,4,5-tetrahydro-1H-1-benzazepin-1-CN yl)carbonyl]benzoyl]amino]-1H-benzimidazol-2-yl]-, 1,1-dimethylethyl ester

(9CI) (CA INDEX NAME)

RETABLE

Referenced Author (RAU)	Year (RPY)	,	Referenced Work (RWK)	Referenced File
Fujisawa Pharmaceutical	1994		EP 0620216 A	HCAPLUS
Japan Tobacco Inc	1997		JP 09020779 A	HCAPLUS
Otsuka Pharmaceutical C	1991		WO 9105549 A	HCAPLUS

L33 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8

ACCESSION NUMBER:

1998:394328 HCAPLUS

DOCUMENT NUMBER:

129:67773

TITLE:

Preparation of benzamide derivatives having a

vasopressin antagonistic activity

INVENTOR(S):

Setoi, Hiroyuki; Ohkawa, Takehiko; Zenkoh, Tatsuya;

Sawada, Hitoshi; Sawada, Yuki; Oku, Teruo

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan; Setoi,

Hiroyuki; Ohkawa, Takehiko; Zenkoh, Tatsuya; Sawada,

Hitoshi; Sawada, Yuki; Oku, Teruo

SOURCE:

PCT Int. Appl., 332 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO. DATE
WO 9824771	A1 19980611	1 WO 1997-JP4192 19971118
W: AU, CA,	CN, HU, IL, JP,	, KR, MX, US, AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM		
RW: AT, BE,	CH, DE, DK, ES,	, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9749672	A1 19980629	9 AU 1997-49672 19971118
EP 946519	A1 19991006	6 EP 1997-912493 19971118
R: AT, BE,	CH, DE, DK, ES,	, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
TD 2001505193	T2 20010417	7 JP 1998-521225 19971118

US 1999-308662 19990602 20010327 US 6207693 **B1** 20000711 20011113 US 2000-614132 В1 US 6316482 AU 1996-3953 19961202 PRIORITY APPLN. INFO.: Α WO 1997-JP4192 19971118 A3 19990602 US 1999-308662

OTHER SOURCE(S):

MARPAT 129:67773

GI

$$R^{1}$$
 N
 R^{2}
 $A-E-Y$
 R^{3}
 X

The title compds. [I; R1 = (un) substituted aryl, cyclo(lower) alkyl, heterocyclyl; R2 = H, lower alkyl, etc.; R3 = H, halo, OH, etc.; A = a single bond, O, NH; E = lower alkylene, lower alkenylene, etc.; X = CH:CH, CH:N, S; Y = (un) substituted aryl, condensed heterocyclyl, etc.] and their pharmaceutically acceptable salts, useful in treatment and/or prevention of hypertension, heart failure, renal insufficiency, edema, ascites, vasopressin parasecretion syndrome, hepatocirrhosis, hyponatremia, hypokalemia, diabetic, circulation disorder, cerebrovascular disease, Meniere's disease or motion sickness, were prepared Thus, the title compound II showed IC50 of 1.5 nM against vasopressin 1 receptor binding.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of benzamide derivs. having a vasopressin antagonistic activity)

208770-65-4 HCAPLUS

RN

CN

Carbamic acid, [4-[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]benzoyl]amino]-1H-

benzimidazol-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

Me N—C
$$(CH_2)_5$$
 $-$ O N—Me C—O NH

PAGE 2-A

IT 208767-99-1P 208768-81-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzamide derivs. having a vasopressin antagonistic activity)

RN 208767-99-1 HCAPLUS

CN Carbamic acid, [4-[[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & &$$

RN208768-81-4 HCAPLUS

Carbamic acid, [4-[[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-CNpiperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

●2 HC1

RETABLE Referenced Author (RAU)	Year	VOL	PG (RPG)	Referenced Work (RWK)	Referenced
Abdalla, M American Cyanamid Co American Cyanamid Co Fujisawa Pharmaceutical Grenier-Loustalot, M Nguyen, M Nguyen, M Otsuka Pharma Co Ltd Otsuka Pharma Co Ltd Perron, Y Salem, M Salem, M	1993 1977 - 1978 1991 1995 1962	20 31 86-95 16 5 106-1	245 3049 4185CS 26 1016 57433 177	EGYPT J CHEM EP 0636625 A EP 0640592 A WO 9529152 A JOURNAL OF POLYMER S CHEMICAL SUBSTANCES, TAP CHI HOA HOC WO 9105549 A WO 9534540 A JOURNAL OF MEDICINAL CHEMICAL SUBSTANCES, J CHEM SOC PAK	HCAPLUS HCAPLUS HCAPLUS

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DE 2802023 A
                                                                HCAPLUS
                       1978
Sandoz Ag
                                           CHEMICAL SUBSTANCES, HCAPLUS
                        1992-1116-1 410
Selim, M
                        1992 | 69
                                    688
                                           J INDIAN CHEM SOC
                                                                 HCAPLUS
Selim, M
                        1996
                             51
                                    697
                                           PHARMAZIE
                                                                 HCAPLUS
Varnavas, A
                                          TETRAHEDRON LETTERS | HCAPLUS
                       |1972 |
                                   4533
Yamazaki, T
```

L33 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2004 ACS on STN

1998:608618 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 129:230735

Preparation of cycloimido-substituted benzofused TITLE:

heterocyclic herbicides

Crawford, Scott D.; Maravetz, Lester L.; Theodoridis, INVENTOR (S):

George; Dugan, Benjamin

PATENT ASSIGNEE(S):

FMC Corp., USA

SOURCE:

GI

PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	rent 1			KII		D DATE APPLICATION NO.						o.	DATE					
WO	9838									10 19	98-U	S364'	7	1998	0225			
	W:	AL,	AM,	AT,	AU,	AZ,	ВA,	BB,	ВG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
														IS,				
														MK,				
														ТJ,				
														RU,				
	RW:													DE,			FI,	
		FR.	GB.	GR.	IE,	IT.	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	
							SN,			•	-							
US	6077									JS 19	98-2	8636		1998	0224			
ZA	9801	580		Α		1998	0827		2	ZA 19	98-1	580		1998	0225			
AU	9866	670		A	1	1998	0918		I	U 19	98-6	6670		1998	0225			
	7346																	
	9682								E	EP 19	98-9	0870	8	1998	0225			
										LI,								
BR	9807													1998	0225			
TR	9902	069		T	2	2000	0522		7	rR 19	99-9	9020	69	1998	0225			
	2002													1998				
US	6352	958		В	1	2002	0305		τ	JS 20	00-5	4760	9	2000	0412			
	1413																	
PRIORIT														1997				
				1				- 1	US 3	L998-	2863	6	Α	1998	0224			
								1	WO 3	L998-	US36	47 '	W	1998	0225			
OTHER S	OURCE	(S):			MAR	PAT	129:	2307	35									

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The title compds. [I; A, B = (un) substituted CH, N, (un) substituted NH, O; AB R = H, OH, SH, etc.; X = H, F, Cl, etc.; n = 0-3; J = II-VII (wherein R3 = II-VII) H, alkyl, haloalkyl, etc.)], useful in controlling weeds, were prepared Thus, heating at reflux 1-methyl-6-trifluoromethyl-3-(6-amino-4-bromo-2fluoro-5-hydroxyphenyl)-2,4(1H,3H)-pyrimidinedione with carbonylimidazole in THF followed by reaction of the resulting 1-methyl-3-trifluoromethyl-3-

(7-bromo-5-fluorobenzoxazol-2-on-4-yl)-2,4(1H,3H)-pyrimidinedione with MeI in the presence of Ag2O in CH2Cl2 afforded VIII which showed 100% control against, e.g., velvetleaf and blackgrass.

212754-54-6P IT

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of cycloimido-substituted benzofused heterocyclic herbicides) 212754-54-6 HCAPLUS

RN Carbamic acid, [7-chloro-4-[3,6-dihydro-3-methyl-2,6-dioxo-4-CN (trifluoromethyl)-1(2H)-pyrimidinyl]-5-fluoro-1H-benzimidazol-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
=======================================	+====-	+====-	-=====	+============	+========
Basf Ag	1996			DE 19504188 A	HCAPLUS
Bayer Ag	1997	•		DE 19523640 A	HCAPLUS
Crawford, S	1997	ĺ		US 5661108 A	HCAPLUS
Fmc Corp	1995			WO 9505079 A	HCAPLUS
Fmc Corp	1997			WO 9708170 A	HCAPLUS
Hoffmann La Roche	1988			EP 0255047 A	HCAPLUS
Kumiai Chemical Industr	1997			WO 9729105 A	HCAPLUS
Kumiai Chemical Industr	1997			WO 9742188 A	HCAPLUS
Nihon Tokushu Noyaku Se	1990			EP 0373461 A	HCAPLUS
Nissan Chemical Ind Ltd	1989	1		EP 0304920 A	HCAPLUS
Sumitomo Chemical Co	1992			EP 0476697 A	HCAPLUS
Sumitomo Chemical Co	1993	1		EP 0561319 A	HCAPLUS
Sumitomo Chemical Co	1994	1		EP 0617033 A	HCAPLUS

HCAPLUS COPYRIGHT 2004 ACS on STN L33 ANSWER 10 OF 17 1997:768348 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

SOURCE:

128:70413 Anthelmintig efficiency of a benzimidazole carbamate compound against certain gastrointestinal nematodes of sheep, crossbred calves, poultry and its comparison to fenbendazole

AUTHOR(S): CORPORATE SOURCE: Chaudhri, S. S.; Yadav, C. L.; Gupta, R. P. CCS Haryana Agricultural University, Regional Research

Station, Karnal, 132 001, India

Indian Journal of Animal Sciences (1997), 67(10),

863-865 \

CODEN: IJLAA4; ISSN: 0367-8318

PUBLISHER:

Indian Council of Agricultural Research

DOCUMENT TYPE:

Journal English

LANGUAGE:

The single dose of benzimidazole carbamate (20 mg/kg) can be used for chemotherapy of major gastrointestinal nematodes of sheep, crossbred calves, and poultry birds.

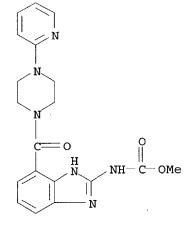
IT 200499-91-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anthelmintic effects of benzimidazole carbamate vs. fenbendazole against gastrointestinal nematodes of sheep, crossbred calves, poultry)

200499-91-8 HCAPLUS RN

Carbamic acid, [4-[[4-(2-pyridinyl)-1-piperazinyl]carbonyl]-1H-CN benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)		VOL (RVL)		Referenced Work (RWK)	Referenced File
Agrawal, R Chaudhri, S Katoch, R Singh, D Soulsby, E Yadav, C Yadav, C Yadav, C	1995	=====- 14 9 10 I 23 10 60	+====== 129 121 27 53 411 47 355	Seventh National Con Agricultural Review Journal of Veterinar Journal of Veterinar Textbook of Veterina International Journa Journal of Veterinar Veterinary Parasitol	MEDLINE

HCAPLUS COPYRIGHT 2004 ACS on STN L33 ANSWER 11 OF 17

ACCESSION NUMBER:

CORPORATE SOURCE:

1994:124172 HCAPLUS

DOCUMENT NUMBER:

120:124172

TITLE:

Segregation of activity profile in benzimidazoles:

effect of spacers at 5(6)-position of methyl

benzimidazole-2-carbamates

AUTHOR (S):

Agarwal, Shiv K.; Sharma, Satyavan; Bhaduri, A. P. Med. Chem. Div., Cent. Drug Res. Inst., Lucknow,

226001, India

SOURCE:

Zeitschrift fuer Naturforschung, C: Journal of

Biosciences (1993) / 48(11-12), 829-38

CODEN: ZNCBDA; ISSN: 0341-0382

DOCUMENT TYPE: LANGUAGE:

Journal English

The design and synthesis of a series of Me 5(6)-substituted benzimidazole-2-carbamates as potential anthelmintics are described. A rational anal. of the structural parameters which segregate the activity of resulting benzimidazole-2-carbamates against enteric and tissue dwelling helminths is presented. The influence of single and multiple spacers, which link the pharmacophores at 5(6)-position of benzimidazole-2-carbamate, on the activity against Ancylostoma ceylanicum (hookworm), Syphacia obvelata (pinworm), Hymenolepis nana (tapeworm) Litomosoides carinii and Acanthocheilonema viteae (filarial worm) has been presented. This anal. indicates that for activity against intestinal helminth the presence of one spacer holding the pharmacophore approx. 3 A apart from the parent nucleus is usually preferred. While for activity against tissue dwelling parasite, the repetition of the benzimidazole-2-carbamate nucleus joined together through the 5,5'-position with one spacer kept apart by distance of 3 Å unit is usually desired.

TT 153213-43-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anthelmintic activity of, structure-activity relations in)

RN153213-43-5 HCAPLUS

Carbamic acid, (8-butyl-8,9-dihydro-9-oxo-1H-imidazo[4,5-f]quinazolin-2-CN yl)-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} O \\ \parallel \\ NH-C-OMe \end{array}$$

HCAPLUS | COPYRIGHT 2004 ACS on STN L33 ANSWER 12 OF 17

ACCESSION NUMBER:

1982:438906---HCAPLUS

DOCUMENT NUMBER:

97:38906

TITLE:

Possible 'anthelmintic agents: syntheses of various

imidazoquinazolinone carbamates

AUTHOR(S):

Kumar, Shiv; Kansal, V. K.; Bhaduri, A. P.

CORPORATE SOURCE:

Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, 226

001, India

SOURCE:

Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1981),

20B(12), 1068-71

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 97:38906

GI

$$H_2N$$
 NR
 R^1NH
 N
 N

Ten imidazoquinazolines I [R = H, Me, Bu, heptyl; R1 = H, PhCH2, Ph(CH2)3, HOCH2CH2; R2 = Me, Et] were prepared by cyclization of the diaminoquinazolines II with MeSC(:NH)NH2.H2SO4 and ClCO2R2. II were prepared in 4 steps from the chloroquinazolinone III (R = H). The imidazoquinazolines IV (R2 = Me, Et) were similarly prepared from the corresponding diaminoquinazoline. III (R = H, Bu) reacted with NH3 to give ring opened products. At 100 mg/kg I caused 100% clearance of Hymenolepis nana.

IT 81946-27-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and anthelmintic activity of)

Ι

III

RN 81946-27-2 HCAPLUS

CN Carbamic acid, (8-butyl-8,9-dihydro-9-oxo-1H-imidazo[4,5-f]quinazolin-2-yl)-, ethyl ester (9CI) (CA INDEX NAME)

=> d 133 ibib abs hitstr 13

L33 ANSWER 13 OF 17 USPATFULL on STN

ACCESSION NUMBER:

2002:332732 USPATFULL

TITLE:

INVENTOR(S):

Benzamide derivatives as vasopressin antagonists

Setoi, Hiroyuki, Ibaraki, JAPAN

Ohkawa, Takehiko, Ishigemachi, JAPAN

Sawada, Yuki, Ushiku, JAPAN Osoda, Kazuhiko, Tsukuba, JAPAN

Oku, Teruo, late of Tokyo, JAPAN deceasedby Noriko

Oku, Chikako Oku,

Tomohito Oku, United States legal representatives Fujisawa Pharmaceutical Co., Ltd., Osaka, JAPAN

PATENT ASSIGNEE(S):

(non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6495542	B1	20021217	
	WO 9937637		19990729	
APPLICATION INFO.:	US 2000-600857		20001016	(9)
	WO 1999-JP72		19990111	

NUMBER DATE _____

PRIORITY INFORMATION:

AU 1998-1500

19980127

DOCUMENT TYPE:

Utility

FILE SEGMENT:

GRANTED

PRIMARY EXAMINER:

Coleman, Brenda

LEGAL REPRESENTATIVE:

Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT:

2693

CAS INDEXING IS AVAILABLE FOR THIS PATENT. A compound of formula (I): ##STR1## AΒ

> wherein A is an optionally substituted heterocyclic group, R is a lower alkoxy; Z is C.dbd.O or CH.sub.2; and B is benzazapinyl, which may be optionally substituted, or a salt thereof, that possesses vasopressin antagonistic activity and is useful as a vasopressin antagonist.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 233263-10-0P

RN

(preparation of heterocyclylbenzamide derivs. as vasopressin antagonists)

233263-10-0 USPATFULL

Carbamic acid, [4-[[2-methoxy-4-[(2,3,4,5-tetrahydro-1H-1-benzazepin-1-CNyl)carbonyl]benzoyl]amino]-1H-benzimidazol-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

=> d 133 ibib abs hitstr 14-YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L33 ANSWER 14 OF 17 USPATFULL on STN

ACCESSION NUMBER:

2002:45585 USPATFULL

TITLE:

Cycloimido-substituted benzofused heterocyclic

herbicides

INVENTOR(S):

Crawford/ Scott D., Bordentown, NJ, United States Maravetz, Lester L., Westfield, NJ, United States Theodoridis, George, Princeton, NJ, United States Dugan, Benjamin, Glen Mills, PA, United States

PATENT ASSIGNEE(S):

FMC Corporation, Philadelphia, PA, United States (U.S.

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6352958	B1	20020305
APPLICATION INFO .:	US 2000-547609		20000412 (9)
RELATED APPLN. INFO.:	Division of Ser.	No. US	1998-28636, filed

d on 24 Feb

1998, now patented, Pat. No. US 6077812

	NUMBER	DATE	
			j.
PRIORITY INFORMATION:	US 1997-39172P	19970226	(60) ⁻
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Kifle, Bruck		
ASSISTANT EXAMINER:	Rao, Deepak R.		

FMCCorporation

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

9

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Novel herbicidal compounds, compositions containing them, and methods

for their use in controlling weeds are disclosed. The novel herbicidal compounds are represented by formula I: ##STR1##

where J is a 1-substituted-6-trifluoromethyl-2,4-pyrimidinedione-3-yl, a 1-substituted-6-trifluoromethyl-1,3,5-triazine-2,4-dion-1-yl, a 3,4,5,6-tetrahydrophthalimid-1-yl, a 4-difluoromethyl-4,5-dihydro-3-methyl-1,2,4-triazol-5(1H)-on-1-yl, a 5,6,7,8-tetrahydro-1H,3H-[1,3,4]thiadiazolo[3,5-a]pyridazineimin-1-yl, or a 1,6,8-triazabicyclo[4.3.0]-nonane-7,9-dion-8-yl ring attached at the 7 position of a benzofuran, benzoxazole, indole, 2,3-dihydrobenzimidazole or benzimidazole, and X is selected from hydrogen, halogen, cyano, nitro, and amino. Preferred R groups are optionally substituted alkyl groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 212754-54-6P

(preparation of cycloimido-substituted benzofused heterocyclic herbicides) 212754-54-6 USPATFULL

RN 212754-54-6 USPATFULL
CN Carbamic acid, [7-chloro-4-[3,6-dihydro-3-methyl-2,6-dioxo-4(trifluoromethyl)-1(2H)-pyrimidinyl]-5-fluoro-1H-benzimidazol-2-yl]-,
ethyl ester (9CI) (CA INDEX NAME)

L33 ANSWER 15 OF 17 USPATFULL on STN

ACCESSION NUMBER:

2001:202663 USPATFULL

TITLE:

Benzamide derivatives having a vasopressin antagonistic

activity

INVENTOR (S):

Setoi, Hiroyuki, Tsukuba, Japan Ohkawa, Takehiko, Yuki-gun, Japan Zenkoh, Tatsuya, Kitasouma-gun, Japan

Sawada, Hitoshi, Tsukuba, Japan Sawada, Yuki, Ushiku, Japan Oku, Teruo, Takatsuki, Japan

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Osaka, Japan

(non-U.S. corporation)

NUMBER DATE

PRIORITY INFORMATION:

AU 1996-3953

19961202

DOCUMENT TYPE:

Utility

FILE SEGMENT:

GRANTED

PRIMARY EXAMINER:

Higel, Floyd D.

ASSISTANT EXAMINER:

Sackey, Ebenezer

LEGAL REPRESENTATIVE:

Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

16 1

LINE COUNT:

8323

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention relates to new benzamide derivatives having a vasopressin antagonistic activity, etc. and represented by general formula (I):

##STR1##

wherein

R.sup.1 is aryl optionally substituted with lower alkoxy, etc.,

R.sup.2 is lower alkyl, etc.,

R.sup.3 is hydrogen, etc.,

A is NH, etc.,

E is ##STR2##

etc.,

X is --CH.dbd.CH--, --CH.dbd.N--, or S, and

Y is a condensed heterocyclic group, etc.,

and pharmaceutically acceptable salts thereof, to processes for preparation thereof and to a pharmaceutical composition comprising the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 208770-65-4P

(preparation of benzamide derivs. having a vasopressin antagonistic activity)

RN208770-65-4 USPATFULL

Carbamic acid, [4-[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-CN piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]benzoyl]amino]-1Hbenzimidazol-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Me N—C (
$$CH_2$$
) 5—O N—Me C—O NH

PAGE 2-A

IT 208767-99-1P 208768-81-4P

(preparation of benzamide derivs. having a vasopressin antagonistic activity) ${\bf r}$

RN 208767-99-1 USPATFULL

CN Carbamic acid, [4-[[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]amino]carbonyl]1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 2-A

RN 208768-81-4 USPATFULL

CN Carbamic acid, [4-[[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 2-A

•2 HCl

L33 ANSWER 16 OF 17 USPATFULL on STN

ACCESSION NUMBER:

2001:44251 USPATFULL

TITLE:

Benzamide derivatives having a vasopressin antagonistic

activity

INVENTOR(S):

Setoi, Hiroyuki, Tsukuba, Japan Ohkawa, Takehiko, Ibaraki, Japan Zenkoh, Tatsuya, Ibaraki, Japan Sawada, Hitoshi, Tsukuba, Japan Sawada, Yuki, Ushiku, Japan Oku, Teruo, Takatsuki, Japan

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Osaka, Japan

(non-U.S. corporation)

NUMBER KIND DATE

US 6207693 В1 20010327 PATENT INFORMATION: 19980611 WO 9824771 19990602 (9) US 1999-308662 APPLICATION INFO .: WO 1997-JP4192 19971118 19990602 PCT 371 date 19990602 PCT 102(e) date

> NUMBER DATE

PRIORITY INFORMATION:

19961202 AU 1996-3953

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER: Ramsuer, Robert W.

LEGAL REPRESENTATIVE:

Sackey, Ebenezer

NUMBER OF CLAIMS:

Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

EXEMPLARY CLAIM:

LINE COUNT:

8050

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

This invention relates to new benzamide derivatives having a vasopressin antagonistic activity, etc. and represented by general formula (I): ##STR1##

wherein R.sup.1 is aryl optionally substituted with lower alkoxy, etc.,

R.sup.2 is lower alkyl, etc.,

R.sup.3 is hydrogen, etc.,

A is NH, etc.,

E is ##STR2##

etc.,

X is --CH.dbd.CH--, --CH.dbd.N--, or S, and

Y is a condensed heterocyclic group, etc.,

and pharmaceutically acceptable salts thereof, to processes for preparation thereof and to a pharmaceutical composition comprising the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 208770-65-4P

(preparation of benzamide derivs. having a vasopressin antagonistic activity)

208770-65-4 USPATFULL RN

Carbamic acid, [4-[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-CN piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]benzoyl]amino]-1Hbenzimidazol-2-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

PAGE 2-A

IT 208767-99-1P 208768-81-4P

(preparation of benzamide derivs. having a vasopressin antagonistic activity)

RN 208767-99-1 USPATFULL

CN Carbamic acid, [4-[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 2-A

208768-81-4 USPATFULL

RNCarbamic acid, [4-[[[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-CNpiperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 2-A

●2 HCl

L33 ANSWER 17 OF 17

ACCESSION NUMBER:

TITLE:

USPATFULL on STN

2000:77328 USPATFULL

Cycloimido-substituted benzofused heterocyclic

herbicides

INVENTOR(S): Crawford, Scott D., Bordentown, NJ, United States
Maravetz, Lester L., Westfield, NJ, United States
Theodoridis, George, Princeton, NJ, United States

Dugan, Benjamin, Glen Mills, PA, United States

PATENT ASSIGNEE(S): FMC Corporation, Philadelphia, PA, United States (U.S.

corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6077812		20000620	
APPLICATION INFO.:	US 1998-28636		19980224	(9)

NUMBER DATE

PRIORITY INFORMATION: US 1997-39172P , 19970226 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Raymond, Richard L.

ASSISTANT EXAMINER: Rao, Deepak R. LEGAL REPRESENTATIVE: FMC Corporation

NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
LINE COUNT: 3021

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Novel herbicidal compounds, compositions containing them, and methods for their use in controlling weeds are disclosed. The novel herbicidal compounds are represented by formula I: ##STR1## where J is a 1-substituted-6-trifluoromethyl-2,4-pyrimidinedione-3-yl, a 1-substituted-6-trifluoromethyl-1,3,5-triazine-2,4-dion-1-yl, a 3,4,5,6-tetrahydrophthalimid-1-yl, a 4-difluoromethyl-4,5-dihydro-3-methyl-1,2,4-triazol-5(1H)-on-1-yl, a 5,6,7,8-tetrahydro-1H,3H-[1,3,4]thiadiazolo[3,5-a]pyridazineimin-1-yl, or a 1,6,8-triazabicyclo[4.3.0]-nonane-7,9-dion-8-yl ring attached at the 7 position of a benzofuran, benzoxazole, indole, 2,3-dihydrobenzimidazole or benzimidazole, and X is selected from hydrogen, halogen, cyano, nitro, and amino. Preferred R groups are optionally substituted alkyl groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 212754-54-6P

(preparation of cycloimido-substituted benzofused heterocyclic herbicides)

RN 212754-54-6 USPATFULL CN Carbamic acid, [7-chlor

Carbamic acid, [7-chloro-4-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-5-fluoro-1H-benzimidazol-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)

=> FIL STNGUIDE

=>

/ Delacroix 09/676,034

=> fil lreg

=> fil beilstein

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FILE RELOADED ON OCTOBER 20, 2002 FILE LAST UPDATED ON JUNE 15, 2004

FILE COVERS 1771 TO 2003. *** FILE CONTAINS 8,997,153 SUBSTANCES ***

>>> PLEASE NOTE: Reaction data and substance data are stored in separate documents and can not be searched together in one query.

Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a molecular formula or a structure search for example can be restricted to compounds with available reaction information by concatenation with PRE/FA, REA/FA or more general with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be selected from substance answer sets and searched in the next step as reaction partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN). After a search for reaction details substance documents associated with reactants or products may be retrieved by searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.

* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE

* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE

* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.

* FOR PRICE INFORMATION SEE HELP COST

=> d que 126 L20 STR 13 0 G1 14 O-->> C-->>> N 0-X×C-X×0 15 @16 17 @18 19 20 10

@21 22 23

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VAR G1=16/18/21
NODE ATTRIBUTES:
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NSPEC
        IS RC
                 AT 11
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NSPEC
                 AT
                    12
       IS RC
NSPEC
       IS RC
                 AT
                    15
NSPEC
                    16
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NSPEC
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NSPEC
                    18
       IS RC
                 AT
NSPEC
                 AT
                    19
       IS RC
NSPEC
        IS RC
                 AΤ
                    20
NSPEC
                    21
NSPEC
       IS RC
                 AT
                 AT 22
NSPEC
        IS RC
                 AT 23
        IS RC
NSPEC
CONNECT IS E1 RC AT 13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

:L25\, L26 3 SEA FILE=BEILSTEIN SSS FUL L20 2 SEA FILE=BEILSTEIN ABB=ON PLU=ON L25 NOT RN/FA

=> d ide 126 1

L26 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): Chemical Name (CN):

Autonom Name (AUN):

Molec. Formula (MF): Molecular Weight (MW): Lawson Number (LN): Compound Type (CTYPE): Constitution ID (CONSID):

Tautomer ID (TAUTID): Entry Date (DED): Update Date (DUPD):

8157319

benomyl

(7-butylcarbamoyl-1H-benzoimidazol-2-yl)-

carbamic acid methyl ester

C14 H18 N4 O3

290.32

29833, 2844, 1762, 289

heterocyclic

6939870 7704593 2000/02/26 2000/02/26

Field Availability:

Code	Name	Occurrence
=====		=======================================
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
CTYPE	Compound Type	1
CONSI	Constitution ID	1
TAUTII	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
ECTOX	Ecotoxicology	1

=> d ectox 126 1

L26 ANSWER 1 OF 2 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Ecotoxicology:

ECTOX

toxicity to soil dwelling organisms Effect (.E): Enchytraeus sp., enchytraeid worm Species or Test-System (.SP): 0 - 64 mg/kgConcentration (.C): 24 day(s) Exposure Period (.EX): three soil moisture, 40, 55, 70 percent Method, Remarks (.MR): used, soil mixed with title compound, vehicle, water, incubated, constant light 400-800 lux, 17 deg C, worms extracted; measured parameters: survival, size of the parent worms, number and size juveniles produced caused significant mortality, survival of Results (.RE): adults differed between soil moistures, adult survival increased with increasing soil moisture at high title compound conc., number of juveniles significant affected by title compound, effects were very abrupt

Reference(s):

1. Puurtinen, H. M.; Martikainen, E. A. T., Arch.Environ.Contam.Toxicol., CODEN: AECTCV, 33(1), <1997>,/34 - 41; BABS-6144369

=> d ide 126 2-YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y

L26 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

4556608 Beilstein Records (BRN): (8-butyl-9-oxo-8,9-dihydro-3H-imidazo<4,5-Chemical Name (CN): f>quinazolin-2-yl)-carbamic acid methyl ester (8-butyl-9-oxo-8,9-dihydro-3H-imidazo<4,5-Autonom Name (AUN): f>quinazolin-2-yl)-carbamic acid methyl ester C15 H17 N5 O3 Molec. Formula (MF): 315.33 Molecular Weight (MW): 30729, 2844, 1762, 289 Lawson Number (LN): Compound Type (CTYPE): heterocyclic Constitution ID (CONSID): 4096371 4366727 Tautomer ID (TAUTID): 6-26 Beilstein Citation (BSO): 1991/12/02 Entry Date (DED): Update Date (DUPD): 1991/12/02

Field Availability:

Code	Name	Occurrence
=======		========
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1

Update Date 1 HPD Melting Point 1 MΡ

This substance also occurs in Reaction Documents:

Code Name Occurrence ______ Reaction Documents 1 Substance is Reaction Product 1 RXPRO

=> d rx 126 2-YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y

L26 ANSWER 2 OF 2 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:

RX

Reaction ID (.ID): 2677155

Reactant BRN (.RBRN): 528927, 471187, 605437

Reactant (.RCT): 5,6-diamino-3-butyl-3H-quinazolin-4-one,

4556608

2-methyl-isothiourea, carbonochloridic

acid methyl ester

Product BRN (.PBRN):

Product (.PRO): (8-butyl-9-oxo-8,9-dihydro-3H-imidazo<4,5-

f>quinazolin-2-yl)-carbamic acid methyl

ester

No. of React. Details (.NVAR):

Reaction Details:

RX

Reaction RID (.RID): 2677155.1 Reaction Classification (.CL): Preparation

NaOH

Reagent (.RGT):
Note(s) (.COM): Yield given. Multistep reaction

Reference(s):

1. Kumar, Shiv; Kansal, V. K.; Bhaduri, A. P., Indian J.Chem.Sect.B, CODEN: IJSBDB, 20(12), <1981>, 1068-1071; BABS-5577111

=> FIL STNGUIDE

07/02/2004

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 12:16:31 ON 02 JUL 2004
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FILE COVERS 1907 - 2 Jul 2004 VOL 141 ISS 2 FILE LAST UPDATED: 1 Jul 2004 (20040701/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> fil biosis

FILE 'BIOSIS' ÉNTERED AT 12:16:33 ON 02 JUL 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 30 June 2004 (20040630/ED)

FILE RELOADED: 19 October 2003.

=> fil embase

FILE 'EMBASE' ENTERED AT 12:16:36 ON 02 JUL 2004 COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE COVERS 1974 TO 1 Jul 2004 (20040701/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

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=> fil medline

FILE 'MEDLINE' ENTERED AT 12:16:40 ON 02 JUL 2004

FILE LAST UPDATED: 1 JUL 2004 (20040701/UP). FILE COVERS 1951 TO DATE.

On February 29, 2004, the 2004 MeSH terms were loaded. See HELP RLOAD for details. OLDMEDLINE now back to 1951.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the

MeSH 2004 vocabulary. See http://www.nlm.nih.gov/mesh/ and http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> FIL STNGUIDE

FILE 'STNGUIDE' ENTERED AT 12:16:45 ON 02 JUL 2004
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Jun 25, 2004 (20040625/UP).

=> d que 1	45	
L34	61	SEA FILE=HCAPLUS ABB=ON PLU=ON "CAMDEN J"/AU OR ("CAMDEN
		JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU)
L35	19	SEA FILE=HCAPLUS ABB=ON PLU=ON ("QUADA J C"/AU OR "QUADA
		JAMES"/AU OR "QUADA JAMES C"/AU OR "QUADA JAMES C JR"/AU OR
		"QUADA JAMES CLARENCE JR"/AU)
L36	15	SEA FILE=HCAPLUS ABB=ON PLU=ON ("AGYIN J"/AU OR "AGYIN
		JOSEPH K"/AU OR "AGYIN JOSEPH KOFI"/AU)
L37	81	SEA FILE=HCAPLUS ABB=ON PLU=ON (L34 OR L35 OR L36)
L38	77	SEA FILE=HÇAPLUS ABB=ON PLU=ON L37 AND (AY<2001 OR PY<2001
		OR PRY<2001)
L39	44	SEA FILE=HCAPLUS ABB=ON PLU=ON L38 AND (?CANCER? OR ?NEOPLASM
		? OR ?VIRAL? OR ?INFECTION?)
L41		SEA FILE=HCAPLUS ABB=ON PLU=ON (PROCTER OR ARIZONA OR CTRC
		OR UAF)/PA
L42		SEA FILE=HCAPLUS ABB=ON PLU=ON L39 AND L41
L43		SEA FILE=HCAPLUS ABB=ON PLU=ON L42 AND ?IMIDIAZOL?
L44		SEA FILE=HCAPLUS ABB=ON PLU=ON L42 AND ?CARBAM?
L45	18	SEA FILE=HCAPLUS ABB=ON PLU=ON L43 OR L44
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=> d que 1	.56	THE THE STATE AND DIVIDEN AND AND THE AND OR HOMOTEN TO
L47	.56 76	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J
L47	76	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU)
	76	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QUADA T C"/AU OR "CAMDEN JAMES BERGER"/AU)
L47 L48	76 18	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QUADA T C"/AU OR "CAMDEN JAMES BERGER"/AU)
L47	76 18	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QUADA T O"/AU OR "CAMDEN JAMES BERGER"/AU)
L47 L48 L49	76 18 13	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QUADA T C"/AU OR "CAMDEN JAMES BERGER"/AU)
L47 L48 L49 L50	76 18 13 87	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QUADA T C"/AU OR "CAMDEN JAMES BERGER"/AU)
L47 L48 L49 L50 L51	76 18 13 87 44	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QUADA T C"/AU OR "CAMDEN JAMES BERGER"/AU)
L47 L48 L49 L50 L51 L52	76 18 13 87 44 4	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QIIADA T C"/AU JAMES"/AU OR "QUADA JAMES C"/AU OR SEA FILE=BIOSIS ABB=ON PLU=ON ("A JOSEPH K"/AU OR "AGYIN JOSEPH KOFI" SEA FILE=BIOSIS ABB=ON PLU=ON (L4 SEA FILE=BIOSIS ABB=ON PLU=ON L50 SEA FILE=BIOSIS ABB=ON PLU=ON L51
L47 L48 L49 L50 L51	76 18 13 87 44 4	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QIIADA J C"/AU JAMES"/AU OR "QUADA JAMES C"/AU OR SEA FILE=BIOSIS ABB=ON PLU=ON ("A JOSEPH K"/AU OR "AGYIN JOSEPH KOFI" SEA FILE=BIOSIS ABB=ON PLU=ON (L4 SEA FILE=BIOSIS ABB=ON PLU=ON L50 SEA FILE=BIOSIS ABB=ON PLU=ON L51 SEA FILE=BIOSIS ABB=ON PLU=ON L51
L47 L48 L49 L50 L51 L52	76 18 13 87 44 4	SEA FILE=BIOSIS ABB=ON PLU=ON ("CAMDEN J"/AU OR "CAMDEN J B"/AU) OR ("CAMDEN JAMES B"/AU OR "CAMDEN JAMES BERGER"/AU) SEA FILE=BIOSIS ABB=ON PLU=ON ("QIIADA T C"/AU JAMES"/AU OR "QUADA JAMES C"/AU OR SEA FILE=BIOSIS ABB=ON PLU=ON ("A JOSEPH K"/AU OR "AGYIN JOSEPH KOFI" SEA FILE=BIOSIS ABB=ON PLU=ON (L4 SEA FILE=BIOSIS ABB=ON PLU=ON L50 SEA FILE=BIOSIS ABB=ON PLU=ON L51 SEA FILE=BIOSIS ABB=ON PLU=ON L51 POS? OR ?SYMP? OR MTG OR ?MEET? OR
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PROCESSING COMPLETED FOR L56
PROCESSING COMPLETED FOR L69
PROCESSING COMPLETED FOR L75
L76
38 DUP REM L45 L56 L69 L75 (3 DUPLICATES REMOVED)
ANSWERS '1-18' FROM FILE HCAPLUS

ANSWERS '1-18' FROM FILE HCAPLUS ANSWERS '19-28' FROM FILE BIOSIS ANSWERS '29-36' FROM FILE MEDLINE ANSWERS '37-38' FROM FILE EMBASE

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YOU HAVE REQUESTED DATA FROM 12 ANSWERS - CONTINUE? Y/(N):y

L46 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:408524 HCAPLUS

DOCUMENT NUMBER:

137:689

TITLE: INVENTOR(S): Benzimidazole derivatives for HIV treatment

Camden, James Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

PCT Int. Appl., 26 pp.

CODEN: PIXXD2 Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	PATENT NO.				KIND DATE APPLICATION NO. DATE								- -				
					A2 20020530					W	20	01-U	19	20011031 <				
	WO	2002041891															~~	G17
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	AU	2002	0393	95	A5 20020603					AU 2002-39395 20011031								
	US	2003	1490	88	A1 20030807								0	2002	1024	<		
PRTO		APP							-	US 2	000-	7039	55	Α	2000	1101	<	
	- -								,	WO 2	001-	US45	019	W	2001	1031		

OTHER SOURCE(S):

MARPAT 137:689

GI

$$x_n \xrightarrow{N} R^2$$

A pharmaceutical composition that can be used to treat HIV is disclosed. The AΒ composition comprises an effective amount of a benzimidazole I [X = H, halo, nitro, oxychloro alkyl of less than 7 C, alkoxy of less than 7 C; n = pos. integer of 4 or less; R = H, alkylcarbamoyl where alkyl has less than 7 C, C1-8 alkyl; R2 = NHCOOR1 (R1 = aliphatic hydrocarbon of less than 7 C)], or a pharmaceutically acceptable organic or inorg. addition salt thereof. The preferred compds. are methyl-(butylcarbamoyl)-2-benzimidazole carbamate and 2-methoxycarbonylaminobenzimidaz ole. The compds. described above are useful for treatment of HIV infection when used alone or in combination with other antiviral agents.

L46 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:869026 HCAPLUS

DOCUMENT NUMBER:

136:610

TITLE:

Benzimidazole carbamate compounds for

cancer treatment

INVENTOR (S):

Camden, James Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S.

Ser. No. 791,986.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE PATENT NO.

APPLICATION NO. DATE

20011129 Α1

Ι

US 2001-843562 20010426 <--

US 2001047021 PRIORITY APPLN. INFO.:

US 2000-562709 B2 20000428 <--

US 2000-791986

A2 20000428 <--

OTHER SOURCE(S):

MARPAT 136:610

GT

$$\begin{array}{c|c}
X & R \\
Y & N \\
N & N \\
N & OR1
\end{array}$$

The invention is a method for treating cancer, including AB carcinomas and sarcomas, through the administration of a pharmaceutical composition containing a tetra-substituted benzimidazole carbamate. The tetra-substituted benzimidazole carbamates of the invention are I [X, Y, Z , \dot{A} = Br, F, Cl, I, alkyl of less than 4 C, alkoxy of less than 4 C; R = H, (C1-4 alkyl)aminocarbonyl, C1-8 alkyl; R1 = aliphatic hydrocarbon of less than 7 C], or pharmaceutically acceptable salts or prodrugs thereof. Preferably R1 is an alkyl group of less than 3 C and X,Y, Z, and A are a halogen. Most preferred is 2-methoxycarbonylamino-4,5,6,7tetrafluorobenzimidazole (preparation described). The tetra-substituted benzimidazole carbamates, and pharmaceutical compns. containing them, are claimed. X,Y,Z, and A are preferably electron-withdrawing

L46 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:868198 HCAPLUS

DOCUMENT NUMBER:

136:605

TITLE:

Pyridinylimidazole carbamates for

cancer treatment

INVENTOR(S):

Camden, James Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

PCT Int. Appl., 26 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

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20011129
                                          WO 2001-US16690 20010523 <--
    WO 2001089499
                    A2
    WO 2001089499
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                           20020718
        W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI,
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            MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM,
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                     B1 20020507 US 2000-578281 20000525 <--
                                         US 2001-923126
                                                           20010806 <--
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    US 2002019415
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                                       US 2000-578281 A 20000525 <--
PRIORITY APPLN. INFO.:
                        MARPAT 136:605
OTHER SOURCE(S):
```

AB A method is provided for treating **cancer**, including carcinomas and sarcomas, through the administration of a pharmaceutical composition containing

a pyridinylimidazole carbamate. The pyridinylimidazole carbamate is I (X = halo, hydroxyl, alkyl of less than 8 C atoms, alkoxy of less than 8C atoms; n = pos. integer less than 4; R = H, C1-8 alkyl), and pharmaceutically acceptable salts and prodrugs thereof.

L46 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:816644 HCAPLUS

DOCUMENT NUMBER:

135:352773

TITLE:

Use of tetra-substituted benzimidazole

carbamates for treating cancer

INVENTOR(S):

Camden, James Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.			KII	AD :	DATE			A.	PPLI	CATI	M MC	o. :	DATE					
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	WO	2001	0834	57	A.	2 、	2001	11-08-	-	W	0 20	01-U	S135	43	2001		<	
	WO 2001083457			A.	3 .	20020321												
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																	ES,	

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FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO:

US 2000-562709 A 20000428 <--
US 2000-791986 A 20000428 <--
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OTHER SOURCE(S):

MARPAT 135:352773

GΙ

$$\begin{array}{c|c} X & R \\ Y & N \\ Z & N \\ N & N \\ N & O \end{array}$$

This invention is a method of treating cancer, including carcinomas and sarcomas through the administration of a pharmaceutical composition containing the title compound I [X, Y, Z, A = Br, F, Cl, I, alkyl, alkoxy; R = H, alkylaminocarbonyl, alkyl; R1 = alkyl]. Most preferred compound I is 2-methoxycarbonylamino-4,5,6,7-tetrafluorobenzimidazole which was used to treat SK-OV-3 tumor lines in nude mouse (data given). The tetra-substituted benzimidazole carbamates and pharmaceutical compns. containing them are claimed herein. X, Y, Z and A are preferably electron withdrawing groups.

L46 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:521912 HCAPLUS

DOCUMENT NUMBER:

135:102582

TITLE:

Methods of treating cancers and viral infections with benzimidazoles

INVENTOR(S):

Camden, James Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Co., USA U.S., 17 pp., Cont.-in-part of U.S. 5,880,144.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	_			
US 6262093	B1	20010717	US 1999-264942	19990309 <
ZA 9602879	A	19970317	ZA 1996-2879	19960411 <
US 5767138	A	19980616	US 1996-771193	19961220 <
US 5880144	A	19990309	US 1997-927550	19970906 <
US 6362207	B1	20020326	US 2000-748651	20001222 <
US 6479526	B1	20021112	US 2002-106429	20020326 <
US 2002198247	A1	20021226		
US 2003187046	\ A1	20031002	US 2002-288264	20021106 <
US 6653335	B2	20031125		
PRIORITY APPLN. INFO).:		US 1995-420914 B3	19950412 <
			US 1996-771193 A3	19961220 <

US 1997-927550 A2 19970906 <-US 1998-81384 B2 19980519 <-US 1998-81627 B2 19980519 <-US 1999-264942 A3 19990309 <-US 2000-748651 A1 20001222 <-US 2002-106429 A1 20020326

OTHER SOURCE(S):

MARPAT 135:102582

GT

$$X_n$$
 N
 R^2
 N
 R^2

Ι

AB A method and composition are disclosed for treating cancer, both carcinomas and sarcomas, and viral infections, in particular HIV, through the administration of a pharmaceutical composition containing a benzimidazole derivative The benzimidazole derivs. are I [X = H, halo, alkyl of less than 7 carbon atoms, alkoxy of less than 7 carbon atoms; n = integer less than 4; Y = H, Cl, nitro, Me, Et, oxychloro; R = H, alkylaminocarbonyl (alkyl has 3-6 carbon atoms), C1-8 alkyl; R2 = 4-thiazolyl, NHCOOR1 (R1 = aliphatic hydrocarbon of less than 7 carbon atoms)], prodrugs, pharmaceutically acceptable salts, and mixts. thereof, and a pharmaceutically acceptable carrier.

REFERENCE COUNT:

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 6 OF 12 HCAPLUS/ COPYRIGHT 2004 ACS on STN

35

ACCESSION NUMBER:

2001:312414 HCAPLUS

DOCUMENT NUMBER:

134:320842

TITLE:

Carbamic acid ester derivatives for

treatment of viral infections

INVENTOR (S):

Camden, James Berger; Gardner, Joseph

Herman; Stanton, David Thomas

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

GΙ

U.S., 12 pp., Cont.-in-part of U.S. Ser. No. 281,893,

abandoned.
CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION N	o.	DATE	
US 6225307	B1	20010501	US 2000-53800	5	20000329	<
PRIORITY APPLN. INFO.	:	US	1999-281893	B2	19990331	<
OTHER SOURCE(S):	MΑ	RPAT 134:320842				

AB A pharmaceutical composition that inhibits or slows the growth of viruses in animals, particularly in mammals, is disclosed. The same composition is can be used to treat viral infections, particularly HIV. The composition comprises from about 10 mg to about 10000 mg of a carbamic acid ester derivative I (X = O, S; R, R1, R2 = H, C1-4 alkyl; Y = H, Cl, F, Br, OH, oxychloro, sulfhydryl) or a pharmaceutical addition salt or prodrug thereof. The most preferred compound is (4-chlorophenyl)-carbamic acid, 3-(hexahydro-3-ethyl-1-methyl-2-oxo-1H-azepin-3-yl) 2 Ph ester.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:57228 HCAPLUS

Ι

DOCUMENT NUMBER:

134:95530

TITLE:

Method of treatment for cancer or

viral infections with a N-chlorophenylcarbamate, or N-chlorophenylthiocarbamate

INVENTOR(S):

Camden, James Berger

PATENT ASSIGNEE(S):

The **Procter** & Gamble Company, USA U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 364,021.

SOURCE:

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	TENT NO.	F	KIND	DATE		APPLICATION NO	ο.	DATE	
US	6177460		В1	20010123		US 1999-40866	4	19990929	<
US	5629341	1	Α	19970513		US 1995-42091	3	19950412	<
ZA	9602878	1	A	19970317		ZA 1996-2878		19960411	<
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					US	1999-364021	A2	19990730	<
					US	1999-408664	A3	19990929	<

OTHER SOURCE(S):

MARPAT 134:95530

AB Methods for the treatment of cancers and viral

infections in mammals are disclosed that include administration of

a N-chlorophenylcarbamate or N-chlorophenylthiocarbamate

or salt thereof. Such compds. may be used in combination with a chemotherapeutic agent and/or a potentiator.

REFERENCE COUNT:

31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:706972 HCAPLUS

DOCUMENT NUMBER:

133:271712

TITLE:

Viral treatment using carbamic

acid esters

INVENTOR (S):

Camden, James Berger; Gardner, Joseph

Herman; Stanton, David Thomas

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	KII	ND I	DATE			A.	PPLI	CATI	ON NC	ο.	DATE						
· ·					A2 20001005 A3 20010111				W	0 20	00-U	5841	5	2000	0329	<	
	W:	AE,	AL,	AM,	AT,	AT,	AU,	ΑZ,	BA,	BB,	ВG,	BR,	BY,	CA,	CH,	CN,	CR,
		CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	EE,	EE,	ES,	FI,	FI,	GB,	GD,	GE,
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	ΝZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,
		UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM		
	RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,
		DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG				
EP	11690	041		A.	2	2002	0109		E	P 20	00-9	1986!	5	2000	0329	<	
	R:	ΑT,	BE,	CH,	DΕ,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FΙ,	RO										
JP	20025	54014	49	T	2	2002	1126		JP 2000-607619					2000	0329	<	
UA	76426	65							A	U 20	00-4	0486		2000	0329	<	
PRIORITY	APPI	LN.	INFO	. :				1	JS 1	999-:	2818	93	Α	1999	0331	<	
											JS84:	16	W	2000	0329	<	
OTHER SO	URCE	(S):			MAR	PAT :	133::	2717:	12	,							

$$R^2$$
 X
 N
 R
 N
 R

AB A pharmaceutical composition for treatment of viral infections, particularly HIV infections, comprises .apprx. 10-10,000 mg of a carbamic acid ester (I; X = O, S; R, R1, R2 = H, C1-4 alkyl; Y = H, Cl, F, Br, OH, oxychloro, sulfhydryl) or pharmaceutical addition salt or prodrug thereof. The most preferred compound

I

is (4-chlorophenyl)-carbamic acid, 3-(hexahydro-3-ethyl-1-methyl-2-oxo-1H-azepin-3-yl)phenyl ester. Toxicity values were measured by XTT and activity of the compound in the tests was measured by reverse transcriptase anal. through 222 days against different HIV-1 cell lines.

L46 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:487107 HCAPLUS

DOCUMENT NUMBER:

131:120896

TITLE:

Pharmaceutical compositions for the treatment of

ADDITION TON MO

viral infections

INVENTOR (S):

Camden, James Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

U.S., 6 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

3

DAMENIO MA

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION N	DATE		
<i></i>							
US 5932604	Α	19990803		US 1996-68046	8	19960715	<
US 5932609 V	A	19990803		US 1997-87670	5	19970616	<-,-
US 6251870 🗸	B1	20010626		US 1999-36402	1	19990730	< - -
US 6177460 /	В1	20010123		US 1999-40866	4	19990929	<
US 6498188 V	В1	20021224		US 2000-64542	7	20000824	<
US 2001002403, 🗸	A1	20010531	20001222	<			
US 6686391 🗸 /	B2	20040203					
US 2001041678 ✓	A1	20011115		US 2001-88829	9	20010621	<
PRIORITY APPLN. INFO.:	:		US	1995-420913	A2	19950412	<
			US	1995-1888P	P	19950804	< - -
			US	1996-680468	A 3	19960715	<
			US	1997-876705	A3	19970616	<
			US	1999-364021	A2	19990730	< ~ -
				1999-408664		19990929	<
OFFIED COMPORT (C)	167	DD3			- 10		-

OTHER SOURCE(S): MARPAT 131:120896

This invention is a pharmaceutical composition that inhibits the growth of cancers and tumors in mammals, particularly in human and warm blooded animals. The composition contains N-chlorophenylcarbamates and N-chlorophenylthiocarbamates along with a chemotherapeutic agent and optionally a potentiator. A composition for treating viral infections in animals or humans comprising a safe and effective amount of N-chlorophenylcarbamates and the N-

chlorophenylthiocarbamates and a potentiator is also disclosed.

REFERENCE COUNT:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:764283 HCAPLUS

DOCUMENT NUMBER:

130:20597

TITLE:

Benzimidazole-2-carbamates for the treatment

of viral infections and

cancer

INVENTOR(S):

Camden, James Berger

PATENT ASSIGNEE(S):

The Procter & Gamble Company, USA

SOURCE:

PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

					KIND DATE APPLICATION NO.						DATE								
	9851														1997	1126	<		
	W-:-	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG	, B	R,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
	`	DK,	EE,	ES,	FI,	GB,	GE,	GH,	ΗÜ	, I	L,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD	, M	IG,	MK,	MN,	MW,	MX,	NO,	ΝZ,	ΡL,	
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK	, S	L,	TJ,	TM,	TR,	TT,	UA,	UG,	UZ,	
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		GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT	, s	E,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	
		GN,	MŁ,	MR,	NE,	SN,	TD,	TG											
US	6506	783		В	1	2003	0114			US	199	97-8	5781	1	1997	0516	<		
AU	9874	027		Α	1	1998	1208			AU	199	98-7	4027		1997	1126	<		
	7286																		
EP	9560	17		Α	1	1999	1117			EP	199	97-9	4960	0	1997	1126	<		
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB	, G	R,	IT,	LI,	LU,	NL,	SE,	PT,	ΙE,	FI
BR	9714	634		Α		2000	0523			BR	199	97-1	4634		1997	1126	<		
CN	1254	282		Α		2000	0524			CN	199	97-1	8219	0	1997	1126	<		
NZ	3351	59		A		2001	0928			NZ	199	97-3	3515	9	1997	1126	<		
JP	2001	5275	23/	Т	2	2001	1225			JΡ	199	98-5	2193	0	1997	1126	<		
US	6077	862	✓	A		2000	0620			US	199	99-2	5996	9	1999	0301	<		
AU	7632	72		В	2	2003	0717			AU	200	1-3	7094		2001	0418	<		
PRIORIT	Y APP	LN.	INFO	. :					US	199	7-8	3578	11	A	1997	0516	<		
									AU	199	8-1	7402	7	A 3	1997	1126	<		
									WO	199	7 - T	JS21	565	W	1997	1126	<		
OTHER S	OURCE	(s):			MAF	TAGS	130:	2059	7										
GI																			

$$\begin{array}{c|c} R & \begin{array}{c} M & M & O \\ \hline \end{array}$$

AB A pharmaceutical composition that is effective in the treatment of HIV and other viral infections and inhibits growth of cancers and tumors in mammals comprises a benzimidazole derivative (I; R = H, CO2H, OH, NH2, CO2R1; R1 = alkoxy, haloalkyl, alkenyl, cycloalkyl), the pharmaceutically acceptable salts thereof, or mixts. thereof. I (R = H) inhibits the growth of B16 murine melanoma and HT29 human colon carcinoma cells with IC50 of 4.925 and 3.297 μM, resp.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L46 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996
DOCUMENT NUMBER: 126:

1996:718343 HCAPLUS

DOCOMENT NOMBE

126:1176

TITLE:

A pharmaceutical composition containing n-

chlorophenylcarbamates and n-

chlorophenylthiocarbamates for inhibiting the

growth of viruses and cancers

INVENTOR(S):

Camden, James Berger

PATENT ASSIGNEE(S):

Procter and Gamble Company, USA

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. ______ ____ -----WO 1996-US4956 19960411 <--19961017 **A1** W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, ,IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML US 5629341 🗸 19970513 US 1995-420913 19950412 <--Α CA 1996-2217953 19960411 <--19961017 AACA 2217953 20011204 C CA 2217953 19960411 <--AU 1996-53898 19961030 AU 9653898 Α1 B2 19991216 AU 714056 ZA 1996-2878 19960411 <--19970317 Α ZA 9602878 19980128 EP 1996-910804 19960411 <--A1EP 820281 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI CN 1996-193249 19960411 <--19980513 CN 1181701 Α BR 1996-4973 19960411 <--19980609 A BR 9604973 RU 1997-118418 19960411 <--C2 20010720 RU 2170577 Α 20011026 NZ 1996-305785 19960411 <--NZ 305785 NO 1997-4696 19971010 <--Α 19971212 NO 9704696 AU 2000-22315 20000315 <--B2 20010322 AU 730920

OTHER SOURCE(S): MARPAT 126:1176

A pharmaceutical composition that inhibits the growth of cancers and tumors in mammals, particularly in human an warm-blooded animals is disclosed. The compns. is also effective against viruses. The composition contains N-chlorophenylcarbamates (I) and Nchlorophenylthiocarbamates (II) which are systemic herbicides. The composition can also contain I and II along with a chemotherapeutic agent and optionally a potentiator. The EC50 of of chloroprofam on colon tumor cell was 13.3 as compared to 0.003 ppm for adriamycin. Various pharmaceutical dosage forms are claimed.

L46 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

PRIORITY APPLN. INFO.:

1996:716308 HCAPLUS

DOCUMENT NUMBER:

125:317335

TITLE:

A pharmaceutical composition containing n-

US 1995-420913

US 1995-1888P

WO 1996-US4956

chlorophenylcarbamates, nchlorophenylthiocarbamates and

n-phosphonoglycine derivatives for inhibiting the

A 19950412 <--

19950804 <--W 19960411 <--

Ρ

growth of cancers and viruses in mammals

INVENTOR(S):

Camden, James Berger

PATENT ASSIGNEE(S):

Procter and Gamble Company, USA

SOURCE:

PCT Int. Appl., 16 pp.

DOCUMENT TYPE:

Patent

CODEN: PIXXD2

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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APPLICATION NO. DATE
                     KIND DATE
    PATENT NO.
                           ____
                                          ______
                     _ _ _ _
                                          WO 1996-US4953
                                                           19960411 <--
    WO 9632103
                     A1
                           19961017
        W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
            ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,
            LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
            SG. SI
        RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
            IE, ĮT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML
                                         US 1995-420935
                                                           19950412 <--
    US 5656615 🗸
                           19970812
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                                          ZA 1996-2881
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                           19961015
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                                          CA 1996-2217955 19960411 <--
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    CA 2217955
                      AΑ
                                          AU 1996-54498
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                           19961030
    AU 9654498
                      Α1
    AU 714058
                      B2
                           19991216
                                          EP 1996-911695
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                           19980128
    EP 820282
                      Α1
        R:, AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
                                          CN 1996-193248
                                                           19960411 <--
                           19980506
                      Α
    CN 1181009
                                                           19960411 <--
                                          BR 1996-4950
                           19980609
                      Α
    BR 9604950 .
                                                           19960411 <--
                                          JP 1996-531150
                          19990326
    JP 11503457
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                                                           19960411 <--
                                          IL 1996-117876
                          20000813
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                      A1
                                          CZ 1997-3237
                                                           19960411 <--
                           20010411
    CZ 288063
                      В6
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                                          NZ 1996-306270
                                                           19960411 <--
    NZ 306270
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                                                           19960411 <--
                      C2
                           20010720
                                          RU 1997-118433
    RU 2170578
                                                           19960411 <--
                           20011203
                                          SK 1997-1385
    SK 282228
                      B6
                                          TW 1996-85105604 19960513 <--
                           20011001
                      В
    TW 457089
                                                           19971010 <--
                           19971208
                                          NO 1997-4693
    NO 9704693
                      Α
                                          CZ 2000-3649
                                                           20001004 <--
                           20010613
    CZ 288382
                      В6
                                       US 1995-420935
                                                        Α
                                                           19950412 <--
PRIORITY APPLN. INFO.:
                                                        W 19960411 <--
                                       WO 1996-US4953
                        MARPAT 125:317335
OTHER SOURCE(S):
    Pharmaceutical compns. that inhibit the growth of cancers and
     tumors in mammals, particularly in human and warm blooded animals is,
     disclosed. The compns. contain a 10:1 to 1:10 mixture of (1) N-
     chlorophenylcarbamates or N-chlorophenylthiocarbamates
     and (2) N-phosphonoglycine derivs. which are systemic herbicides. These
     compns. can also be used to treat viral infections.
     The EC50 of a 1:1 mixture of chloroprofam and glyphosate on colon tumor cell
     was 1.96 as compared to 0.003 ppm for adriamycin. Various pharmaceutical
     dosage forms are claimed.
=> d 176 ibib abs 19-
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS, BIOSIS, MEDLINE, EMBASE' - CONTINUE?
(Y)/N:y
YOU HAVE REQUESTED DATA FROM 20 ANSWERS - CONTINUE? Y/(N):y
L76 ANSWER 19 OF 38 BIOSTS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
                    2001:89629 BIOSIS
ACCESSION NUMBER:
                    PREV200100089629
DOCUMENT NUMBER:
                    Virus and cancer treatments.
TITLE:
AUTHOR(S):
                    Camden, James Berger [Inventor]
                    ASSIGNEE: The Procter and Gamble Company
CORPORATE SOURCE:
PATENT INFORMATION: US 6077862 June 20, 2000
                    Official Gazette of the United States Patent and Trademark
SOURCE:
                    Office Patents, (June 20, 2000) Vol. 1235, No. 3. e-file.
```

CODEN: OGUPE7. ISSN: 0098-1133.

Patent

English

DOCUMENT TYPE:

LANGUAGE:

ENTRY DATE:

Entered STN: 14 Feb 2001

Last Updated on STN: 12 Feb 2002

A pharmaceutical composition that inhibits the growth of tumors and ΑB cancers in mammals and can be used to treat viral infections that comprises a fungicide is disclosed. The particular fungicide used is a benzimidazole derivative having the formula: ##STR1## wherein R is selected from the group consisting of H, carboxyl (--CO2 H), hydroxyl, amino or esters (--CO2 R') wherein R' is selected from the group consisting of alkoxy, haloalkyl, alkenyl, and cycloalkyl wherein the alkyl groups have from 1-8 carbons or CH3 CH2 (OCH2 CH2)n -- or CH3 CH2 CH2 (OCH2 $\tilde{C}H2$ $\tilde{C}H2$) n --or (CH3)2 CH--(OCH(CH3)CH2) n -- wherein n is from 1-3, the pharmaceutically acceptable salts thereof, or mixtures thereof.

L76 ANSWER 20 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2000:214259 BIOSIS PREV200000214259

TITLE:

Antitumor activity of FB-642 against several human tumor

xenograft models.

AUTHOR(S):

Hao, D. [Reprint author]; Gonzalez, C. M.; Davis, J.; Marty, J.; Gonzales, P.; Jundt, C.; Stringer, S. D.;

Weitman, S. D.; Camden, J. B.

CORPORATE SOURCE:

Institute for Drug Development, San Antonio, TX, USA

SOURCE:

Proceedings of the American Association for Cancer Research Annual Meeting,

(March, 2000) No. 41, pp. 104. print.

Meeting Info.: 91st Annual Meeting of the American Association for Cancer Research. San Francisco,

California, USA. April 01-05, 2000.

ISSN: 0197-016X.

DOCUMENT TYPE:

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

ENTRY DATE:

English LANGUAGE:

Entered STN: 24 May 2000

Last Updated on STN: 5 Jan 2002

L76 ANSWER 21 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2000:202183 BIOSIS PREV200000202183

TITLE:

Dual flipping and novel motifs of DNA

methyltransferase.

AUTHOR (S):

Quada, James C. [Reprint author]; Izbicka,

Elzbieta; Rashidi, Hooman H.

CORPORATE SOURCE: SOURCE:

CTRC-Institute for Drug Development, San Antonio, TX, USA

Proceedings of the American Association

for Cancer Research Annual Meeting, (March, 2000) No. 41, pp. 79. print.

Meeting Info.: 91st Annual Meeting of the American Association for Cancer Research. San Francisco,

California, USA. April 01-05, 2000.

ISSN: 0197-016X.

DOCUMENT TYPE:

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE:

English

ENTRY DATE:

Entered STN: 24 May 2000

Last Updated on STN: 5 Jan 2002

L76 ANSWER 22 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER:

1999:166156 BIOSIS

DOCUMENT NUMBER:

PREV199900166156

TITLE:

Pharmaceutical composition for inhibiting the growth of

viruses and cancers comprising thiabendazole.

Camden, J. B. [Inventor] AUTHOR(S): West Chester, Ohio, USA CORPORATE SOURCE:

ASSIGNEE: THE PROCTER and GAMBLE COMPANY

PATENT INFORMATION: US 5880144 March 9, 1999

Official Gazette of the United States Patent and Trademark SOURCE:

Office Patents, (March 9, 1999) Vol. 1220, No. 2, pp. 1567.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE:

Patent English

LANGUAGE:

Entered STN: 19 Apr 1999 ENTRY DATE:

Last Updated on STN: 19 Apr 1999

L76 ANSWER 23 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 1999:246466 BIOSIS DOCUMENT NUMBER:

CORPORATE SOURCE:

PREV199900246466

TITLE:

Pharmaceutical compositions for inhibiting the growth of

cancers.

AUTHOR(S):

Camden, J. B. [Inventor] West Chester, Ohio, USA

ASSIGNEE: THE PROCTER and GAMBLE COMPANY

PATENT INFORMATION: US 5872142 Feb. 16, 1999

SOURCE:

Official Gazette of the United States Patent and Trademark Office Patents, (Feb. 16, 1999) Vol. 1219, No. 3, pp. 2530.

print.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE:

Patent English

LANGUAGE: ENTRY DATE:

Entered STN: 2 Jul 1999

Last Updated on STN: 2 Jul 1999

L76 ANSWER 24 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER:

1999:72884 BIOSIS PREV199900072884

DOCUMENT NUMBER: TITLE:

Pharmaceutical compositions for inhibiting the growth of

cancers.

AUTHOR(S):

Camden, J. B. [Inventor]

CORPORATE SOURCE:

West Chester, Ohio, USA ASSIGNEE: THE PROCTER and GAMBLE COMPANY

PATENT INFORMATION: US 5854231 Dec. 29, 1998

SOURCE:

Official Gazette of the United States Patent and Trademark

Office Patents, (Dec. 29, 1998) Vol. 1217, No. 5, pp. 4198.

print.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE:

Patent

LANGUAGE:

English

ENTRY DATE:

Entered STN: 1 Mar 1999

Last Updated on STN: 1 Mar 1999

L76 ANSWER 25 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER:

1999:71124 BIOSIS

DOCUMENT NUMBER:

PREV199900071124

TITLE:

Pharmaceutical composition for inhibiting the growth of

cancers.

AUTHOR(S):

Camden, J. B. [Inventor]

CORPORATE SOURCE:

West Chester, Ohio, USA

SOURCE:

ASSIGNEE: THE PROCTER and GAMBLE COMPANY PATENT INFORMATION: US 5840742 Nov. 24, 1998

Official Gazette of the United States Patent and Trademark

Office Patents, (Nov. 24, 1998) Vol. 121, No. 4, pp. 4025.

print.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE:

Patent

LANGUAGE:

English

ENTRY DATE:

Entered STN: 1 Mar 1999

Last Updated on STN: 1 Mar 1999

L76 ANSWER 26 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER:

2002:110724 BIOSIS

DOCUMENT NUMBER:

PREV200200110724

TITLE:

Pharmaceutical composition for inhibiting the growth of

cancers.

AUTHOR(S):

Camden, J. B. [Inventor]

CORPORATE SOURCE:

West Chester, Ohio, USA
ASSIGNEE: THE PROCTER and GAMBLE COMPANY

PATENT INFORMATION: US 5770616 Vune 23, 1998

SOURCE:

Official Gazette of the United States Patent and Trademark Office Patents, (June 23, 1998) Vol. 1211, No. 4, pp. 4096.

print.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE:

Patent

LANGUAGE:

English

ENTRY DATE: Entered STN: 24 Jan 2002

Last Updated on STN: 26 Feb 2002

L76 ANSWER 27 OF 38 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

1996:353947 BIOSIS PREV199699076303

TITLE:

DNA strand scission by photoactivated bleomycin analogues.

AUTHOR (S):

Hecht, S. M. [Reprint author]; Quada, J. C.; Zuber, G. F.

CORPORATE SOURCE:

SOURCE:

Dep. Chem., Univ. Virginia, Charlottesville, VA 22901, USA Photochemistry and Photobiology, (1996) 12 No. SPEC.

ISSUE, pp. 66S-67S.

Meeting Info.: 24th Annual Meeting of t!

Society for Photobiology. Atlanta, Georg

15-20, 1996.

CODEN: PHCBAP. ISSN: 0031-8655.

DOCUMENT TYPE:

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract; English

LANGUAGE: ENTRY DATE:

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ACCESSION NUMBER:

1992:249881 BIOSIS

DOCUMENT NUMBER:

PREV199242120181; BR42:120181

TITLE:

THE REGULATION CALCIUM ACTIVATED POTASSIUM CHANNELS BY ATP

RECEPTORS AND OSMOTIC CHALLENGE IN HSG CELLS.

AUTHOR (S):

SOURCE:

KIM H D [Reprint author]; SULLIVI - M. DIDNETT J;

CAMDEN J; TURNER J T

CORPORATE SOURCE:

DEP PHARMACOL, UNIV MO, SCH MED, FASEB Journal, (1992) Vol. 6, No Meeting Info.: 1992 MEETING OF T

AMERICAN SOCIETIES FOR EXPERIMEN I, ANAHEIM, CALIFORNIA, USA, APR

SOC EXP BIOL) J.

CODEN: FAJOEC. ISSN: 0892-6638.

DOCUMENT TYPE:

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ENTRY DATE:

Entered STN: 14 May 1992

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L76 ANSWER 29 OF 38

MEDLINE on STN

DUPLICATE 1

ACCESSION NUMBER: DOCUMENT NUMBER:

1999212223

MEDLINE PubMed ID: 10194316

TITLE:

Regulation of catalytic activity and processivity of human

AUTHOR:

Sun D; Lopez-Guajardo C C; Quada J; Hurley L H;

Von Hoff D D

CORPORATE SOURCE:

Institute for Drug Development, Cancer Therapy & Research Center, San Antonio, Texas 78245-3217, USA.. dsun@saci.org

CONTRACT NUMBER:

U19 CA67760-04 (NCI)

SOURCE:

Biochemistry, (1999 Mar 30) 38 (13) 4037-44.

Journal code: 0370623. ISSN: 0006-2960.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199904

ENTRY DATE:

Entered STN: 19990504

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Entered Medline: 19990421

The ends of eukaryotic chromosomes are specialized sequences, called AB telomeres comprising tandem repeats of simple DNA sequences. sequences are essential for preventing aberrant recombination and protecting genomic DNA against exonucleolytic DNA degradation. Telomeres are maintained at a stable length by telomerase, an RNA-dependent DNA polymerase. Recently, human telomerase has been recognized as a unique diagnostic marker for human tumors and is potentially a highly selective target for antitumor drugs. In this study, we have examined the major factors affecting the catalytic activity and processivity of human telomerase. Specifically, both the catalytic activity and processivity of human telomerase were modulated by temperature, substrate (dNTP and primer) concentration, and the concentration of K+. The catalytic activity of telomerase increased as temperature (up to 37 degrees C), concentrations of dGTP, primer, and K+ were increased. However, the processivity of human telomerase decreased as temperature, primer concentration, and K+ were increased. Our results support the current model for human telomerase reaction and strengthen the hypothesis that a G-quadruplex structure of telomere DNA plays an important role in the regulation of the telomerage reaction.

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L76 ANSWER 32 OF 38 MEDLINE on STN

MEDLINE on STN L76 ANSWER 33 OF 38

L76 ANSWER 34 OF 38

MEDLINE on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

96086506 MEDLINE PubMed ID: 7582943

TITLE:

Design, synthesis and sequence selective DNA cleavage of functional models of bleomycin--II. 1,2-trans-disubstituted

Removed hits for "J.M. Berger"

cyclopropane units as novel linkers.

AUTHOR: Huang L; Quada J C Jr; Lown J W

CORPORATE SOURCE: Department of Chemistry, University of Alberta, Edmonton,

Canada.

SOURCE: Bioorganic & medicinal chemistry, (1995 Jun) 3

(6) 647-57.

Journal code: 9413298. ISSN: 0968-0896.

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199512

ENTRY DATE: Entered STN: 19960124

Last Updated on STN: 19970203 Entered Medline: 19951213

The design and syntheses of functional models for bleomycin in which AB AMPHIS, a simplified model of the metal-chelating subunit of bleomycin is connected to distamycin analogs with a series of linkers, are described. Kinetic studies and DNA cleavage assay show that 1,2-trans-disubstituted cyclopropane units are the best linkers within this series. Study of selective DNA cleavage on high resolution polyacrylamide sequencing gels indicates that the linker modified hybrids generally cleave selectively at the 5' end of poly T sites and at the 3' end of poly A sites. Cleavage activity is enhanced for most of the compounds related to those with shorter linkers, previously reported, (Huang, L.; Quada, Jr J. C.; Lown, J. W. Bioconjugate Chemical 1995, 6, 21, Reference 1) probably as a result of the linker allowing the active complex to approach the target deoxyribose more closely and efficiently. Certain of the compounds, ones containing a (S)-methyl in the linker and the (S,S)-cyclopropyl linker, exhibit unique cleavage sites, indicating that these linkers allow the hybrids to locate novel, individual DNA binding sites.

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ACCESSION NUMBER: 95192171 EMBASE

DOCUMENT NUMBER: 1995192171

TITLE: Functional models of the antitumor antibiotic

bleomycin.

AUTHOR: Huang L.; Quada Jr. J.C.; Lown J.W.

CORPORATE SOURCE: Department of Chemistry, University of Alberta, Edmonton,

Alta. T6G 2G2, Canada

SOURCE: Current Medicinal Chemistry, (1995) 2/1 (543-560).

ISSN: 0929-8673 CODEN: CMCHE7

COUNTRY: Netherlands

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 016 Cancer

030 Pharmacology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

AB The naturally occurring glycopeptide bleomycin exhibits both antitumor and antibiotic properties. It has an established place

in the clinical treatment of certain human malignancies including squamous cell carcinoma and testicular tumors . Structurally it comprises four distinct domains: i) an anchoring group containing a bithiazole moiety that binds to double helical DNA; ii) a chiral peptidic spacer that positions the individual portions of the molecule on the receptor; iii) a sugar moiety bearing a carbamoyl group; and iv) an active moiety bearing ligands capable of coordinating a metal ion, such as iron and which is involved in the redox chemistry ultimately responsible for site specific DNA damage. The observation of serious side effects, principally pulmonary toxicity, has limited the clinical applications of bleomycin and provides the motivation to develop less toxic and more selective versions of the drug. Once the mechanism of action of bleomycin via oxygen mediated and site specific DNA cleavage was elucidated the possibility arose of designing functional models. This article will review progress from the earliest metal-complexing models to the most recent conjugates that fully mimic the action of the natural product and, moreover, are capable of being directed to alternative target sequences.

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